



CURRICULUM VITAE

NAME:	Torgeir Moan
DATE OF BIRTH:	1944-06-02, Malvik, Norway
NATIONALITY:	Norwegian
LANGUAGES:	Norwegian, English, German
PROFESSION:	Professor of Marine Structures, NTNU. Director, Centre for Ships and Ocean Structures.

EDUCATION:	M.Sc., Civil Engineering The Norwegian Institute of Technology (NTH), 1968 PhD Civil Engineering, NTH, 1975 Thesis: Analysis of Spatial Finite Element Approximations
FIELDS OF RESEARCH AND PROFESSION:	Structural mechanics, finite element methods, stochastic dynamic analysis, risk/safety assessment

EXPERIENCE (EMPLOYMENT):

1. Principal activities

From - to

1969 - 1970	Military service. 0.5 year military academy for non-commissioned officers, and 0.5 year service in Civil engineering Office, military region Northern Norway.
1970 - 1972	Research fellow, Division of Structural Mechanics, NTH; and stay at prof. Zienkiewicz' group in Swansea (prof. Zienkiewicz holds an Honorary dr.degree at NTNU)
1972 - 1976	Assistant prof., Division of Ship Structures, NTH (now NTNU)
1976 - 1977	Visiting prof., Dep. of Ocean Engineering, Massachusetts Institute of Technology
1977 - 1978	Assoc. Prof., Division of Ship Structures, NTH
1978 -	Prof., Div. of Marine Structures (formerly: Ship Structures) NTH
1980 - 1981	Commissioner, the Royal Inquiry Commission of the Alexander L. Kielland Accident. (On leave of absence from NTH).
1982 - 1984	Deputy Head, Department of Marine Technology, NTH
1984 - 1986	Head of Department of Marine Technology, NTH
1986 - 1987 and	Visiting Prof., Department of Naval Architecture and Ocean Engng., Univ. of California, Berkeley.
1993 - 1994	
2002 -	Director, Centre for Ships and Ocean Structures
2002 - 2007	Keppel Professor, the National University of Singapore (adjunct professorship)

2. Other professional activities

1974 -	Scientific Advisor to SINTEF (a research organization with approx. 2300 employees)
1975 - 1983	Member of Det norske Veritas' Advisory Committee on Offshore Technology, for Offshore Code Development
1980 - 1983	Member of the Board "Safety Offshore Research Program" (member of the Council 1978-80).



- Total budget: USD 20 mill.
- 1982 - Member of the Norwegian Petroleum Directorate's Committee on "Regulations for Local-carrying Structures for Offshore Exploitation of Oil and Gas".
- 1983 - 1986 Member of ASCE's Committee on the Reliability of Offshore Structures.
- 1984 - 1989 Member of the Joint Research Committee of NTH and SINTEF
- 1984 - 1989 Member of the NTNf Marine Technology Committee
- 1984 - 1986 Member of the Board of Directors, NTH
and
- 1990 - 1995
- 1984 - 1989 Chairman, Committee for Doctoral Studies, NTH (Member since 1981).
- 1985 - 1991 Member, SINTEF's Council
- 1985 - Member, Int. Assoc. of Structural Safety and Reliability
- 1994 - Member of Standing Committee of Int. Ship Structures Congress. (Previously member/chairman of Committee II.1 1973-82 and the Design Philosophy Committee 1982-91, Chairman Committee on Applied Design.).
- 1985 - 1989 Chairman, the Norwegian Council of Scientific Research's fellowship Committee. (Member since 1984).
- 1986 - 1988 Member of ECOR Committee on Reliability of Offshore Structures
- 1989 - 1997 Member of the Board, Norwegian Academy of Technical Sciences
- 1989 - Chairman, Nordic Committee for Industrial Research (Member since 1985 -)
- 1990 - 1999 Member of the Norwegian Building Standards Assoc. Committees on
- Reliability of Structures
- Load Requirements
- 1990 - 1993 Member of the Central Planning Committee, NTH
- 1990 - Member of ISO Working Group for "Reliability of Structures" (ISO 2394) and task group on "Combination of Actions".
- 1990 - Member of Joint Industry Group for developing an International code for design of Floating Offshore Structures.
- 1992 - Member of ISO Working Group for developing a design code for offshore structures.
- 1993 - Member of the Advisory Research Council for MARINTEK
- 1994 - 1996 Member of the Strategy Committee for Marine Technology, the Norwegian Council for Research
- 1994 - 1997 Chairman of the Standing Committee of the Int. Ship and Offshore Structures Congress
- 1993 - 1997 Vice president, Norwegian Academy of Technical Sciences
- 1996 - 1999 Member of Board of Directors, Norwegian University of Science and Technology (NTNU)
- 1999 - 2004 Member of Norwegian University Council Committee
- Evaluation of Study Program at Stavanger College
- "Immaterialrett"
- 2000 - 2003 Member, SINTEF's Council
- 2000 - Chairman, Norwegian Building Standards Assoc. Comm. on Reliability of Structures
- 2002 - Member, Council of Representatives from Parliament and Science
- 2002 - Director, Centre for Ships and Ocean Structures - A Centre of Excellence established by the Norwegian Research Council
- 2008- European Research Council, Expert Evaluator, Advanced Grants
- 2010 Member, IEC committee for offshore wind turbines
- 2012- Chairman, Advisory Committee, School of Engineering and Technology, Aalto University

In addition, I have participated in several ad-hoc committees, e.g. UNESCO Comm. For curricula in ocean engineering, and NATO Comm. for evaluating research proposals.

Abbreviations:

- NTNF - The (former) Norwegian Council for Scientific and Technological Research in Norway
NTH - the Norwegian Institute of Technology (member of the Leuven club of universities)



3. Other Commitments

Member of organizing committees for the following international conferences:

- Behaviour of Offshore Structures (BOSS) Trondheim, 1976; London, 1979; MIT, 1982; Delft, 1985; Trondheim, 1988; London, 1992; MIT, 1994; Delft, 1997; Chairman of the 1988 conference.
- Int. Conf. on Structural Safety and Reliability (ICOSSAR) Trondheim, 1981; Kobe, 1985; Innsbruck, 1993; Kyoto, 1997; Newport Beach (LA), 2001; Rome, 2005; Osaka, 2009, New York, 2013; Chairman of the 1981 conference.
- Int. Conf. on Practical Design of Ships and Mobile Structures (PRADS) Trondheim, 1987; Varna, 1989; Newcastle, 1992; Seoul, 1995; Houston, 2007; Rio, 2011; Changwon City (Korea), 2013.
- WEGEMT School on Advanced Aspects of Offshore Engineering Trondheim/Aachen /Wageningen, 1979.
- Int. Conf. on Ships and Offshore Structures, Trondheim, 1997; Nagasaki, 2000; San Diego, 2003.
- Int. FAST Conf., Trondheim, 1991; Seattle, 1999; Southampton, 2001; Ischia, 2003, St. Petersburg, 2005; Shanghai, 2007; Athens, 2009; Honolulu, 2011.
- Third Int. Forum on Aluminium Ships, Haugesund, 1998
- Chairman EURODYN '93 Conf., Trondheim, 1993, member EURODYN; Florence, 1996; Prague, 1999; Munich, 2002; Paris, 2005; Southampton, 2008; Leuven, 2011; Porto 2014
- Int. Conf. on Hydroelasticity, Trondheim, 1994
- Int. Conf. on Prob. Mechanics, Second Conf. Athens, 1994; Third Conf. 1998
- Offshore Brazil, Rio de Janeiro, 1995, 1997
- European Conf. on Steel Structures, First Conf. in Athens, 1995; Second Conf. in Prague 1999; Third Conf. in 2002, Coimbra, Portugal; Fifth Conf. Graz, Austria 2008.
- Chairman, ISSC '97 Conf., Trondheim, 1997
- ICASP8, Sydney, 1999; ICASP9, San Francisco, 2003; Tokyo, 2007.
- Civil and Environmental Engineering Conf., Bangkok, 1999
- ASCE Prob. Mechanics Conf., 2000
- Int. Maritime Assoc. of the Mediterranean Congress, Crete, 2002
- Fifth World Congress on Computational Mechanics, Vienna, 2002.
- OMAE Congress, Oslo, 2002; OMAE Congress, Mexico, 2003; OMAE Congress Vancouver, 2004; Haldikiki, Greece, 2005; Hamburg, 2006; San Diego, 2007; Lisbon, 2008; Honolulu, 2009; Shanghai, 2010; Rotterdam, 2011; Rio, 2012; Nantes 2013
- NAV 2003, Palermo; NAV 2006, Genova.
- ASRANet Glasgow, 2001; Barcelona, 2004; Glasgow, 2006; Athens, 2008; Edinburgh, 2010; London, 2012.
- International Conference On Marine Research and Transportation (ICMRT'05)
- ECCOMAS Thematic Conference: Marine: Oslo, 2005; Barcelona, 2007; Trondheim, 2009.
- HSMV 2008, Naples.
- IALCCE 2008, Varenna; Taipei, Taiwan, 2010; Vienna, 2012
- DTec Conference, Shanghai, 2008.
- DOSS-2009, Harbin, 2009.

Editor

Journal of Marine Structures, Elsevier (2001 -), Member of the Board since 1988.

Member of the editorial board of the following international journals.

- Civil and Structural Engineering (2007-)
- Computers and Structures, Pergamon Press (1978-1991)
- Constructional Steel Research, Elsevier (1990 - 2001)
- Engineering Structures, (1978-1998)
- Marine Science and Technology, SNAJ and Springer Verlag, Tokyo (1995 -)
- Marine systems and ocean technology, SOBENA, Rio de Janeiro (2004-)
- Prob. Engng. Mechanics, Butterworth (1994 - 99)



- Ships and offshore structures, Woodhead Publ. Ltd, Cambridge (2006 - 2008)
- Ship Technology Research (1999 -)
- Structural Safety, Elsevier (1982 - 2008)
- Structure and Infrastructure Engineering, Taylor & Francis (2004-)
- Uncertainties in Engineering Mechanics (2000 -)
- International Journal of Engineering under uncertainty: Hazards, Assessment and Mitigation, Serials Publications (2008 -)

Evaluation of university and extensive research applications programs

- Naval Arch. and Ocean Engng., Federal University of Rio de Janeiro, 1995
- Naval Arch. and Ocean Engng., University of Sao Paulo, 1998
- Instituto Superior Technico, Marine Technology Unit, Lisbon, 1999
- Engineering School, University College, Stavanger, 1999
- Mechanical Engng., Delft University of Technology, Eindhoven University of Technology, University of Twente, 2008
- EU Advanced Grants, 2008-
- Aalto University, Helsinki, 2009
- Mechanical Engng., Swedish universities, 2013
- School of Marine Science and Technology, University of Newcastle, 2013

4. Main Projects

Clients

Aker Group

Aker Engineering

Aker Engineering

North Sea Operators and
NTNF

Norwegian Government

CONOCO

Kværner – Moss

Rosenberg, F. Selmer

The Norwegian
Petroleum Directorate

NTNF and offshore industry

Stavanger Police

Phillips Petroleum Co.

Exxon, Norsk Hydro
Shell and Statoil

NTNF, Kværner,
Kongsberg UF

Projects

Main responsible for design

Joints in semi-submersibles and transition pieces between column and deck in Condeep Gravity Platforms, 1974-75.

Structural Assessment of the Transport mode of Condeep Platform Decks, 1975

Risk Assessment of the Continental Shelf Activities, particularly of Mobile Rig Operations.

Main responsible in the Inquiry Commission for the technical investigations of the Alexander L. Kielland accident.

Main responsible for project on probability-based fatigue Design Code of Offshore Platforms.

Comparative Safety Assessment of Low Temp. Tank

Concepts, Kårstø LNG Terminal Facility, 1982.

Development of codes of Load-carrying structures

Stability criteria of Mobile Units

Assessment of the Abnormal Heeling of Henrik Ibsen

Member of Editorial Committee and Contributor to Fatigue Design Handbook

Reviewer/advisor to Handbook for Accidental Load

Feasibility Study of Floating Production Platforms



Stena Shipowners	Fatigue Design Review of a Semi-submersible platform
Statoil	Development of TLP Design criteria, 1984.
Norsk Hydro, Statoil and others	Marine Structures Research Program 1983 - 89
Conoco, Norsk Hydro, Saga, Statoil, SikteC	Structural risk analyses of platform concepts
UK Dep. of Energy; Norw. Maritime dir., Esso Norway, Saga, Shell, Norsk Hydro, Statoil	Risk Assessment of Buoyancy Loss in Mobile Units, 1985.
Norwegian Petroleum Directorate	Review of Risk Assessment of Platform 34/10
Golar Nor, Norsk Hydro	Structural Evaluation of Petrojarl I, 1985-86.
Saga Petroleum	Conceptual Safety Evaluation of TLP platforms for the Snorre field, 1986.
Saga Petroleum	Review of the Design Basis for the Snorre TLP, 1987
Aker Engineering	Conceptual Study of Production Ships
Norwegian Road Administration	Calibration of Codes for Submerged, Buoyant Bridges.,1988
The Norwegian Ship-owners Assoc. and Petroleum Directorate	Safety Regulations for Production Ships, 1986-87
Joint Industry Project NTNF/Industry	Handbook of Accidental Loads, 1987-88. Structural Analysis and Design of High Speed Vehicles, 1988 -
Conoco and others	Model Code for Floating Offshore Platforms, 1990 - 1992
Conoco, Statoil and others	Damage - Tolerance criteria for TLP concrete Hulls, 1990-1992
Norwegian Road Administration	Safety Evaluation of Submerged, Buoyant Bridge Concept, 1990.
Joint Industry Project	Reassessment of Offshore Structures, 1991 -
Statoil	Sleipner Accident Investigation, 1991
Joint Industry Project	Probabilistic code for pipelines, MASPUS/SUPERB, 1992 -
Italian Consort.	Design Criteria for submerged Tunnel Bridges across the Messina Strait, 1992 -
SINTEF, NTNU	Hydroelasticity – strategic research project program, 1992-2002
Phillips Petr. Co.	Reassessment of existing jacket structures, 1994-
Kværner	Assessment of Troll Olje Platform



Int. Standards Org. Statoil/BP	Reliability Levels of Offshore Structures – across different Structural Forms and Materials, 1994-95.
Amoco, Elf, Phillips Petr., HSE and Aker Offshore Partner	Probabilistic Inspection Planning - Correlation with Inspection Observations, 1995 -
Joint Oil Company	Design Guidelines for Ringing, 1993 – 1994
Norwegian and US Navy, Ulstein, Kværner, et al.	Dynamic Analysis Support System (Load and Procedures for High Speed Vessels), 1994 -
Statoil	Probabilistic inspection planning for Heidrun Tethers, 1995
Norwegian Road Administration	Review of Design Basis of Submerged, Buoyant Bridge Across Hogsfjord, 1996-98
Hydro Al., Kværner, and Det Norske Veritas	Aluminium in Ships, 1996 -2001
Joint Industry Project, Norwegian Stand. Organization (NTS)	NORSOK Standards for Actions & Actions Effects, Steel Structures, 1997 -
Esso, Statoil, HSE	Operational Safety of FPSO, 1997
HSE	Target levels for Reliability-based Assessment of Offshore Structures during Design and Operation, 1998
Statoil	Requalification of Veslefrikk B hull structure and mooring system, 1998 – 1999
Norwegian Petr. Dir	Review of the Technical Regulations of NPD, 1998 -
DNV	Safety of Sea Committee 1999 -
Norsk Hydro	Ormen Lange pipeline, 1999
Inquiry Comm. After the Grounding of M/S Sleipner	Structural Assessment of M/S Sleipner, 2000
Statoil/Moss Maritime	Assessment of ageing mobile platforms, 2001 Risk Analysis of FPSOs, 2000 – 2001
American Bureau of Shipping	Risk Analysis of FPSOs, 2000 - 2001
American Bureau of Shipping	Reliability-based inspection of FPSOs, 2002 - 2003
NPD	
NFR, industry consortia	Assessment of ageing-induced risk of total loss of semi-submersibles, 2002 -
EU	Centre of Excellence in Ships and Ocean structures, 2002 -
NFR	MARSTRUCT- network of excellence, 2002 –



NFR	Extreme Wave Load Effects, Strategic Univ. Programme, 2003 – 2008
American Bureau of Shipping	Intelligent structures in fisheries and aquaculture, Strategic Institute Programme, 2004 – 2008
Norsk Hydro, Ship-owners Association of Norway, Statoil	Calibration of FPSO Codes, 2003-2004 Safety of DP operations of Drilling Vessels, 2003 - 2005
NFR	Scenario-based risk assessment of collisions and grounding, Strategic Univ. Programme, 2005 –
EU, Fred Olsen, ABB	SEEWEC (Wave Energy Conversion) 2005 – 2009
EU	Marie Curie network, Wavetram 2, 2008 –
NFR (competence development with user support)	Safe Operations of Subsea Systems (SOSS), CeSOS is a partner with SFH, 2008 –
NFR, industry	Centre for Research Based Innovation in Aquaculture Technology CREATE, 2007- 2015
NFR	Offshore Wind Energy in Norway: Setting the Basis, Strategic University Program, 2008 - 2012
NFR, industry (Research centre for environmentally friendly energy)	Nowitech – Norwegian Wind Technology Centre, (CeSOS is a partner), 2009 – 2017
EU Joint Industry Project EU	Marina Platform – for offshore wind and wave energy production, 2009- 2014 Risk based inspection planning of marine structures 2010-2013 MARE-WINT – Materials and Reliability of Wind Turbines 2012-2016

5. Publications

5.1 Research and Development Papers

Books

1. Moan, T. and Shinozuka, M. (eds.): “Proc. Third Int. Conf. on Structural Safety and Reliability”, Elsevier Publishing Co., Amsterdam, 1981.
2. Moan, T. et al.: “The Alexander L. Kielland Accident” (in Norwegian, English translation available), NOU 11: 1981, Universitetsforlaget, Oslo, March 1981.
3. Næss, A. and Moan, T. “Stochastic Dynamics of Marine Structures” Cambridge University Press, September 2012.

Book Chapters

1. Holand, I. and Moan, T.: “The Finite Element Method in Plate Buckling”, Chapter 16 in Finite Element Methods in Stress Analysis, Holand, I. and Bell, K. (eds.), Tapir, Trondheim, 1969.
2. Moan, T.: “Overview of Offshore Structures”, Chapter 1 in “Fatigue Handbook”, A. Almar-Næss (ed.), Tapir, Trondheim, 1985.
3. Moan, T. et al.: “Report of Committee on Design Philosophy”, ISSC, Genova, Italy, September 1985.



4. Moan, T. et al.: "Report of Committee IV.1. Design Philosophy", Proc. ISSC Conf., Copenhagen, August 15.-19., 1988.
5. Moan, T. et al.: "Report of Committee IV.1 Design Philosophy", Proc. ISSC, Wuxi, China, Sept. 1991.
6. Moan, T. et al.: "Report of ISSC Committee V.1 Applied Design - Strength Limit States Formulations", Proc. 12th ISSC Congress, St. John's Newfoundland, Sept. 1994.
7. Moan, T. et al "General principles on reliability for structures". IS 2394. International Organization for Standardization, 1998.
8. Moan, T., "Wave Loading" in *Dynamic Load and Design of Structures*. Chapter 5. pp. 176-230. Spon Press, London, 2001.
9. Næss, A. and Moan, T. "Probabilistic design of offshore structures", Chapter 5 in *Handbook of Offshore Engineering*, Elsevier, S.K. Chakrabarti (ed.), 2005, pp. 197-278.
10. Moan, T. Offshore Structures, Chapter 7. In *Complex Structures*, R. E. Melchers (ed.), ASCE, 2006.
11. Moan, T., Das, P., Friis- Hansen, P., Gu, X., Hovem, L., Parmentier, G., Shigemi, T. and Spencer, J. "Reliability based structural design and code development", 16th Int. Ship and Offshore Structures Congress, Southampton University Press, 2006, 58 pp.
12. Moan, T. Reliability of aged offshore structures Chapter 11, In Paik, J.K. & Melchers, R.E. *Condition Assessment of Aged Structures*, CRC Press, Boca Raton, 2008.
13. Choo, S.R, Moan, T., et al ISSC Committee V.7. Report 2009.
14. Moan, T., Shu, Z. and Jia, H. Reliability of Intact and Damaged Ships in the Ultimate Limit State: A Review. In: Centre for Marine Technology and Engineering (CENTEC) Anniversary Book. CRC Press, Lisbon, Portugal, 2012. ISBN 978-0-415-69808-5.

PhD thesis

1. Moan, T.: "Analysis of Spatial Finite Element Approximations in Structural Mechanics", Doctoral Thesis, Report no. 76-3, Division of Structural Mechanics, NTH, 1976.

Journal papers

1. Moan, T.: "A Finite Element Stress Field Solution of the Problem of St. Venant Torsion", Int. J. Num. Methods. in Engng., Vol. 5, 1973, pp. 455-458.
2. Moan, T.: "On Shell effects in Ferro-Cement Vessels", Norwegian Maritime Research, Vol. 1, No. 4, 1973, pp. 1-6.
3. Moan, T.: "A Note on the Convergence of Finite Element Approximations for Problems Formulated in Curvilinear Co-ordinate Systems", Computer Methods in Applied Mechanics and Engineering, Vol. 3, 1974, pp. 209-235.
4. Moan, T.: "Experiences with orthogonal Polynomials and "Best" Numerical Integration Formulas on a triangle; with particular reference to Finite Element Approximations", Zeitschrift für Angewandte Math. und Mechanik, Vol. 54, 1974. pp. 501-508.
5. Moan, T.: "Discussion of the paper: "Toward a Unified Approach to Ship Structural Safety", Paper no. 3, Spring Meeting, Royal Institute of Naval Architects, London, 1978 by D. Faulkner and J. A. Sadden.
6. Søreide, T.H., Moan, T. and Nordsve, N.T.: "On the Behaviour and Design of Stiffened Plates in Ultimate Limit State", J. Ship Research, Vol. 22, No. 4, December 1978.
7. Taby, J., Moan, T. and Rashed, S.: "Theoretical and Experimental Study of the Behaviour of Damaged Tubular Members in Offshore Structures", Norwegian Maritime Research, Vol. 9, No. 2, 1981. (Also first Indian Conf. in Ocean Engng., Madras, Febr. 18.-20. 1981).
8. Guedes Soares, C. and Moan, T.: "Statistical Analysis of Still Water Bending Moments and Shear Forces in Tankers, Ore and Bulk Carriers", Norwegian Maritime Research, No. 3, 1982.
9. Engesvik, K. and Moan, T.: "Probabilistic Fracture Mechanics Analysis of Fatigue Strength of Welded Structures", J. Engng. Fracture Mechanics, Vol. 18, No. 4, 1983.
10. Haver, S. and Moan, T.: "On Some Uncertainties related to the Short term Stochastic Modelling of Ocean waves", J. Applied Ocean Research, No. 2, Vol. 5, 1983.
11. Fylling, I.J. and Moan, T.: "Extreme Values of Non-linear Motion and Loads in Ocean towing and Mooring Systems", Norwegian Maritime Research, Vol. 12, No. 4, 1984.
12. Moan, T.: "Summary of ISSC Report of Committee IV.I Design Philosophy", J. Marine Structures, Vol. 2, 1989, pp. 45-49.
13. Jiao, G. and Moan, T.: "Probabilistic Analysis of Fatigue due to Gaussian Load Processes", J. Prob. Engng. Mechanics, Vol. 5, No. 2, 1990.
14. Jiao, G. and Moan, T.: "Methods of Reliability Model Updating through Additional Events", J. Structural Safety, Vol. 9, No. 2, 1990.



15. Fujikubo, M., Berge, S. and Moan, T.: "CTOD Estimates of Surface Cracked Wide Plates in Bending - I. Finite Element Analysis", *Engineering Fract. Mechanics*, Vol. 40, 1991, No. 3, pp. 627-639.
16. Fujikubo, M., Berge, S. and Moan, T.: "CTOD Estimates of Surface Cracked Wide Plates in Bending - II. Level 3 CTOD Method", *Engineering Fracture Mechanics*, Vol. 40, 1991, No. 3, pp. 641-651.
17. Fujikubo, M., Berge, S. and Moan, T.: "CTOD Estimates of Surface Cracked Wide Plates in Bending - III. Wide Plate with Overmatched Welded Joint", *Engineering Fracture Mechanics*, Vol. 40, 1991, No. 3, pp. 653-665.
18. Guedes Soares, C. and Moan, T.: "Model Uncertainty in the Long-term Distribution of Wave-induced bending Moments for Fatigue Design of Ship Structures", *J. Marine Structures*, Vol. 4, No. 4, 1991.
19. Wu, Yu-lin and Moan, T.: "An Incremental Load Formulation for Limit State in the Reliability Analysis of Nonlinear Systems", *J. Structural Safety*, Vol. 10, 1991, pp. 307-325.
20. Jiao, G. and Moan, T.: "Reliability-based Fatigue and Fracture Design Criteria for Welded Offshore Structures", *J. Engineering. Fracture Mechanics*, Vol. 41, 1992, No. 2, pp. 271-282.
21. Olufsen, A., Leira, B.J. and Moan, T.: "Uncertainty and Reliability Analysis of Jacket Platform", *J.ASCE, St. Engng. Div.*, Vol. 118, No. 10, Oct. 1992, pp. 2699-2716.
22. Bai, Y., Igland, R. and Moan, T.: "Tube Collapse Under Combined Pressure, Tension and Bending Load", *J. Offshore and Polar Engng.*, Vol. 3, No. 3, June 1993.
23. Farnes, K.-A. and Moan, T.: "Extreme dynamic, non-linear response of fixed platforms using a complete long-term approach", *Applied Ocean Research*, Vol. 15, No. 6, pp 317-326, 1994.
24. Hovde, G.O. and Moan, T.: "Fatigue Reliability of TLP Tether Systems", *Proc. 13th OMAE Conf.*, Houston, ASME, New York, 1994, Vol. 2, pp. 141-150.
25. Moan, T. et al.: "Limit States for the Ultimate Strength of Tubulars Subjected to Pressure, Bending and Tension Loads", *J. Marine Structures*, Vol. 7, 1994, pp. 323-344.
26. Moan, T.: "Book Review. A Course in Ocean Engineering", *J. Structural Safety*, Elsevier, Vol. 13, 1994, pp 285-286.
27. Wang, X., Jiao, G. and Moan, T.: "Reliability Analysis of Offshore Production Ships", *J. ISOPE*, Vol. 4, No. 4, Dec. 1994, pp 302-311.
28. Bai, Y., Igland, R. and Moan, T.: "Collapse of Thick Tubes under Combined Tension and Bending", *J. Construct. Steel Research*, Vol. 32, 1995, pp 233-257.
29. Estefen, S.F., Moan, T., Sævik, S. and R.A. Zimmer: "Limit State Formulations for TLP Tendon and Steel Riser Bodies", *J. Construct. Steel Research*, Vol. 32, 1995, pp 107-121.
30. Theotokoglou, E. and Moan, T.: "Experimental and Numerical Study of Composite T-joints". *J. Composite Materials*, Vol. 30, No. 2, 1996, pp.190-209.
31. Wang, X. and Moan, T.: "Stochastic and Deterministic Combinations of Still Water and Wave Bending Moments in Ships", *J. Marine Structures*, Vol. 9, 1996, pp. 787 – 810.
32. Wang, X., Jiao, G. and Moan, T., "Analysis of Production Ships Considering Load Combinations, Ultimate Strength and Structural Reliability", *SNAME Annual Meeting*, New York, Oct. 2 -5, 1996. Also: *SNAME Trans.* Vol. 104, 1996, pp. 3-30.
33. Wu, M.K. and Moan, T.: "Linear and Nonlinear Hydroelastic Analysis of High-Speed Vessels", *J. Ship Research*, Vol. 40, 1996, No. 2.
34. Hovde, G. and Moan, T., "Fatigue Reliability of TLP Tether Systems", *J. OMAE*, 1997, Vol. 119, No.1, pp.53-60.
35. Bai, Y., Igland, R. and Moan, T., "Tube Collapse under Combined External Pressure Tension and Bending loads, *J. Marine Structures*, 1997, Vol. 10, No. 5, pp. 389-410.
36. Wang, X. and Moan, T., "Ultimate Strength Analysis of Stiffened Panels in Ships Subjected to Biaxial and Lateral Loading", *J. ISOPE*, Vol. 7, No.1, pp. 22-29.
37. Hermundstad, O.A., Aarsnes, J.V. and Moan, T. "Linear Hydroelastic Analysis of High-Speed Catamarans and Monohulls", *J. Ship Research*, Vol. 43, No. 1, March 1999, pp. 48-63.
38. Baarholm, G. S. and Moan, T., "Estimation of nonlinear long-term extremes of hull girder loads in ships", *J. Marine Structures* 13, May-June 2000, pp. 495-516.
39. Igland, R.T. and Moan, T., "Reliability Analysis of Pipelines During Laying, Considering Ultimate Strength Under Combined Loading, *J. OMAE*, Vol. 122, No. 1, February 2000, pp. 40-46.
40. Gu, X., Shen, J. and Moan, T., "Experimental and Theoretical Investigation of Higher Order Harmonic Components of Nonlinear Bending Moments of Ships", *J. Ship Technology Research*, Vol. 47, No. 4, October 2000.
41. Heggelund, S. E., Moan, T. and Oma, S., "Transverse strength analysis of catamarans", *J. Marine Structures* 13, May-June 2000, pp. 517-535.



42. Moan, T., "Recent Research and Development Relating to Platform Requalification", J. OMAE, Vol. 122, No. 1, February 2000, pp. 20-32.
43. Moan, T. and Song, R. "Implications of Inspection Updating on System Fatigue Reliability of Offshore Structures", J. OMAE, Vol. 122, August 2000, pp. 173-180.
44. Moan, T., Vårdal, O.T., Hellevig, N.C. and Skjoldli, K. "Initial Crack Dept. and POD Values inferred from in-service Observations of Cracks in North Sea Jackets", J. OMAE, Vol. 122, August 2000, pp. 157-162.
45. Tveiten, B. Wathne and Moan, T., "Determination of structural stress for fatigue assessment of welded aluminium ship details", J. Marine Structures 13, May-June 2000, pp. 189-212.
46. Baarholm, G. Sagli and Moan, T., "Application of Contour Line Method to Estimate Extreme Ship Hull Loads Considering Operational Restrictions", Journal of Ship Research, Vol. 45, No. 3, 2001, pp. 227-239.
47. Zha, Yufeng and Moan, T., "Ultimate strength of stiffened aluminium panels with predominantly torsional failure modes", Journal of Thin-walled Structures. Hefte 39, 2001.
48. Baarholm, Gro Sagli, Moan, T., "Efficient estimation of extreme long-term stresses by considering a combination of longitudinal bending stresses", Journal of Marine Science and Technology, 2002, Vol. 6, pp. 122-134.
49. Gu, Xuekang and Moan, T., "Long-Term Fatigue Damage of Ship Structures Under Nonlinear Wave Loads". J. Marine Technology, 2002 Vol. 39, pp. 95-104.
50. Heggelund, S.E. and Moan, T., "Analysis of Global Load Effects in Catamarans". Journal of Ship Research, June 2002, pp. 81-91.
51. Heggelund, S.E., Moan, T. and Oma, S., "Determination of global design loads for large high-speed catamarans", Invited, Proc. Inst. Mech. Engrs. Vol. 216. Part M: J. Engineering for the Maritime Environment, 2002.
52. Moan, T. Amdahl, J. Wang, X. and Spencer, J., "Risk Analysis of FPSO, with particular emphasis on collisions", SNAME, Trans., Vol. 110, 2002, pp. 307-339.
53. Ye, Naiquan and Moan, T., "Fatigue and static behaviour of aluminium box-stiffener lap joints", Int. Journal of Fatigue, 2002, No. 24, pp. 581-589.
54. Gu, X. and Moan, T., "Time Domain Simulation of Nonlinear Responses of Ship in Waves", Journal of Ship Research, Vol. 47, No. 3, September 2003, pp 262-273.
55. Zha, Yufeng and Moan, T., Experimental and Numerical Prediction of Collapse of Flatbar Stiffeners in Aluminium Panels", J. ASCE, St. Div., Vol. 129, No. 2, pp. 160-168.
56. Chen, H. and Moan, T. "Probabilistic Modelling and Evaluation of Collision between Shuttle Tanker and FPSO in Tandem Offloading". J. Reliability Engineering and System Safety 84(2), pp. 169-186, 2004.
57. Chen Haibo, Moan, T., Haver, S. and Larsen, K., "Prediction of relative motion and probability of contact between FPSO and shuttle tanker in tandem offloading operation", J. OMAE, Vol. 126, 2004, pp. 235-242.
58. Moan, T. "Marine Structures for the Future- a Sea of Opportunities". Invited paper in inaugural issue. Journal of SOBENA, 1(1), 2004, pp. 5-23.
59. Wang, L. and Moan, T., "Probabilistic analysis of nonlinear wave loads on ships using Weibull, generalized Gamma and Pareto distributions", J. Ship Research, Vol. 48, pp. 202-217, Sept. 2004.
60. Chen, H. and Moan, T. "FPSO- shuttle tanker collision risk reduction". Journal of Offshore Mechanics and Arctic Engineering 2005, ASME Vol. 127, pp. 345-352.
61. Ge, C., Faltinsen, O.M., Moan, T. "Global hydroelastic response of catamaran due to wetdeck slamming", Journal Ship Research, Vol. 49, No. 1, March 2005, pp. 24-42.
62. Hermundstad, O.A. and Moan, T. "Numerical and experimental analysis of bow flare slamming on a Ro-Ro vessel in regular oblique waves". Journal of Marine Science and Technology, Vol. 10, No. 3, 2005, pp. 105-122.
63. Huang, W. and Moan, T. "Combination of global still-water and wave load effects for reliability-based design of floating production storage and offloading (FPSO) vessels", Applied Ocean Research, Vol.27, 2005, pp. 127-141.
64. Moan, T. (ed.). "Very large floating structures", Journal Marine Structures, Vol. 18, No.2, March 2005.
65. Moan, T. "Reliability-based management of inspection, maintenance and repair of offshore structures". Structure and Infrastructure Engineering. Vol.1, No.1, 2005, pp. 33-62.
66. Moan, T., Gao, Z. and Ayala-Uruga, E. "Uncertainty of wave-induced response of marine structures due to long-term variation of extratropical wave conditions", Journal Marine Structures, Vol. 18, No. 4, May 2005, pp. 359-382.



67. Wu, M.K. and Moan, T. "Efficient calculation of wave-induced ship responses considering structural dynamic effects", *Applied Ocean Research*, Vol. 27, 2005, 81-96.
68. Chen, X.J., Moan, T., Fu, S.X. and Cui, W.C. "Second-order hydroelastic analysis of a floating plate in multidirectional irregular waves". *Int. J. of Non-linear Mechanics*, 2006, Vol. 41, pp. 1206-1218.
69. Graczyk, M., Moan, T., and Rognebakke, O. 2006. "Probabilistic analysis of characteristic pressure for LNG tanks". *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 128, pp. 134-144.
70. Wu, M.K. and Moan, T. 2006. "Numerical prediction of wave-induced long-term extreme load effects in a flexible high-speed pentamaran", *J. Marine Science and Technology*. Vol.11, No.1, pp. 39-51.
71. Moan, T., Shu, Z., Wu, M.K. and Amlashi, H. "Comparative reliability study of ships types by accounting for the effect of ship operations", Annual Meeting (SMTC & E), SNAME, Houston.
72. Ayala Uruga, E. and Moan, T. "Time-variant reliability assessment of FPSO hull girder with long cracks". *J.OMAE*, 2007, Vol. 129, pp. 81-89.
73. Ayala Uruga, E. and Moan, T. "Fatigue reliability-based assessment of welded joints based on consistent fracture mechanics formulations". *Int. Journal of Fatigue*, 2007, vol. 29, 3, 444-456.
74. Chen, X.J., Moan, T. and Fu, S.X. "Extreme response of very large floating structures considering second-order hydroelastic effects in multidirectional irregular waves". *Ocean Engineering*, 2007, Vol. 34, No. 11-12, pp. 1516-1531.
75. Fu, S.X., Moan, T., Chen, X.J. and Cui, W.C. "Hydroelastic analysis of flexible floating interconnected structures". *J. Ocean Engineering*, 2007, Vol. 34, pp. 1516-1531.
76. Gao, Z. and Moan, T. "Fatigue damage induced by non-Gaussian bimodal loading in mooring chains". *Applied Ocean Research*, 2007, Vol. 29, No. 1-2, pp. 45-54.
77. Graczyk, M., Moan, T. and Wu, MK. "Extreme sloshing and whipping-induced pressures and structural response in membrane LNG tanks". *J. Ships and Offshore Structures*, 2007, Vol. 2, No. 3, pp. 201-216.
78. Hermundstad, O.A. and Moan, T. "Efficient calculation of slamming pressures on ships in irregular seas". *J. of Marine Science and Technology*, Vol. 12, No. 3, 2007. pp. 160-182.
79. Huang, W. and Moan, T. "A practical formulation for evaluating combined fatigue damage from high- and low-frequency loads". *J. Offshore Mechanics and Arctic Engineering*, 2007, Vol. 129, Issue 1, pp. 1-8.
80. Huang, X.P. and Moan, T. "Improved modelling of the effect of R-ratio on crack growth rate". *Int. J. Fatigue*, 2007, vol. 29, 4, 591-602.
81. Huang, X.P., Cui, W.C. and Moan, T. "The role of residual stress in fatigue of structures, subjected to compressive fluctuating loading". *Key Engineering Materials*, submitted, 2007.
82. Katafygiotis, L., Moan, T. and Cheung, S. H. "Auxiliary Domain Method for Solving Multi-Objective Dynamics Reliability Problems for Nonlinear Structures". *J. Structural Engineering & Mechanics*, 2007, Vol. 25, No. 3.
83. Melchers, R.E., Moan, T. and Gao, Z. "Corrosion of working chains continuously immersed in seawater". *J. Marine Science and Technology*, 2007, Vol. 12, pp. 102-110.
84. Moan, T. "Fatigue reliability- from the Alexander Kielland failure to life cycle safety assessment". *J. ISOPE, JS Chung Award Lecture*, 2007, Vol. 17, No. 1, pp.1-21.
85. Moan, T., Zheng, X.Y. and Quek, S.T. "Frequency-domain analysis of nonlinear wave effects on offshore platform responses". *Int. J. of Non-Linear Mechanics*, 2007, Vol. 42, pp. 555-565.
86. Moan, T. "Design of offshore structures and ships for damage tolerance. Marine Systems & Ocean Technology". *Journal of SOBENA*, Vol.3, No. 1, 2007, pp.51-65.
87. Wu, MK and Moan, T. "Sensitivity of extreme hydroelastic load effects to changes in ship hull stiffness and structural damping". *J. Ocean Engineering*, 2007, Vol. 34, pp. 1745-1756.
88. Wu, MK and Moan, T. "Statistical analysis of wave-induced extreme nonlinear load effects using time-domain simulations". *Applied Ocean Research*, 2007, Vol. 28, No. 6, pp. 386-397.
89. Ye, N. and Moan, T. "Statistic and Fatigue Analysis of Three Types of Aluminium Box-stiffener/ Web Frame Connections". *Int. J. of Fatigue*, 2007, Vol. 29, pp. 1426-1433.
90. Zheng, X. Y., Moan, T. and Quek, S. T. "Non-Gaussian random wave simulation by two-dimensional Fourier transform and linear oscillator response to Morison force". *J. Offshore Mechanics and Arctic Engineering*, 2007, Vol. 129, pp. 327-334.
91. Amlashi, H. K. K and Moan, T. "Ultimate strength analysis of a bulk carrier hull girder under alternate hold loading condition. A case study: Part 1: Nonlinear finite element modelling and ultimate hull girder capacity". *Marine Structures*, 2008, Vol. 21, No. 4, pp. 327-352.
92. Chen, H., Moan, T. and Verhoeven, H. "Safety of dynamic positioning operations on mobile offshore drilling units". *Reliability Engineering & System Safety*, 2008, Vol. 93, No. 7, pp. 1072-1090.



93. Drummen, I., Storhaug, G. and Moan, T. "Experimental and numerical investigation of fatigue damage due to wave-induced vibrations in a containership in head seas". *Journal of Marine Science and Technology*, 2008, Vol. 13, No. 4, pp. 428-445.
94. Gao, Z. and Moan, T. "Frequency-domain fatigue analysis of wide-band stationary Gaussian processes using a trimodal spectral formulation". *International Journal of Fatigue*, 2008, Vol. 30, No. 10-11, pp. 1944-1955.
95. Graczyk, M. and Moan, T. "A probabilistic assessment of design sloshing pressure time histories in LNG tanks". *Ocean Engineering*, 2008, Vol. 35, No. 8-9, pp. 834-855.
96. Huang, W. and Moan, T. "Analytical method of combining global longitudinal loads for ocean going ships". *J. Probabilistic Engineering Mechanics*, 2008, Vol. 23, No. 1, pp. 64-75.
97. Huang, X.P., Moan, T. and Cui, W.C. "An engineering model of fatigue crack growth under variable amplitude loading". *International Journal of Fatigue*, 2008, Vol. 30, No. 1, pp. 2-10.
98. Iijima, K., Yao, T. and Moan, T. "Structural response of a ship in severe seas considering global hydroelastic vibrations". *Marine Structures*, 2008, Vol. 21, No. 4, pp. 420-445.
99. Moan, T. Reliability of aged offshore structures. In: "*Condition Assessment of Aged Structures*", 2008, Ed. Paik, J. K. and Melchers R. E., Woodhead Publishing.
100. Moan, T. and Ayala Uruga, E. "Reliability-based assessment of deteriorating ship structures operating in multiple sea loading climates". *J. Reliability Engineering and System Safety*, 2008, Vol. 93, No. 3, pp. 433-446.
101. Shu, Z. and Moan, T. "Effects of Avoidance of Heavy Weather on the Wave-Induced Load on Ships". *Journal of Offshore Mechanics and Arctic Engineering*, 2008, Vol. 130, No. 2.
102. Taghipour, R., Perez, T. and Moan, T. "Hybrid frequency-time domain models for dynamic response analysis of marine structures". *Ocean Engineering*, 2008, Vol. 35, No. 7, pp. 685-705.
103. Aarsæther, K. G. Estimating Navigation Patterns from AIS *The Journal of Navigation* (2009) vol. 62, p. 587-607
104. Amlashi, H. K. K and Moan, T. Ultimate strength analysis of a bulk carrier hull girder under alternate hold loading condition, Part 2: Stress distribution in the double bottom and simplified approaches. *Marine Structures*, 2009, Vol. 22, Issue 3, p. 522-544.
105. Chen, H., Moan, T. and Verhoeven, H. Effect of DGPS failures on dynamic positioning of mobile drilling units in the North Sea. *Accident Analysis and Prevention*, vol. 41, 1164-1171
106. Drummen, I., Wu, M. K. and Moan, T. Experimental and numerical study of containership responses in severe head seas. *Marine Structures*, 2009, Vol. 22, p. 172-193.
107. Drummen, I., Wu, M. K. and Moan, T. Numerical and experimental investigations into the application of response conditioned waves for long-term nonlinear analyses. *Marine Structures*, 2009, Vol. 22, Issue 3, p. 576-593.
108. Gao, Z. and Moan, T. Extreme value prediction of inundation drag force with and without current. *Ocean Engineering*, 2009, vol. 36, 1244-1250.
109. Huang, X.P. and Moan, T. Residual Stress in an Autofrerrated Tube Taking Bauschinger Effect as a Function of the Prior Plastic Strain. *Journal of Pressure Vessel Technology*, April 2009, Vol. 131, p. 021207.
110. Jia, H. and Moan, T. Comparative Reliability Analysis of Ship Hull Girders under Vector-load Processes. *Journal of Marine Science and Technology*, 2009, vol.14, n4, 485-498
111. Lopes, Miguel F. P., Hals, J., Gaidai, O., Gomes, R.P.F., Moan, T., Gato, L. M. C. and Falcão, A. Experimental and numerical investigation of non-predictive phase-control strategies for a point-absorbing wave energy converter. *Ocean Engineering*, Vol. 36, No. 5, pp. 386-402.
112. Moan, T. Development of accidental collapse limit state criteria for offshore structures. *Structural Safety*, 2009, Vol. 31, No. 2, pp. 124-135.
113. Moan, T. Safety management of deep water station-keeping systems *Journal of Marine Science and Application*, 2009, Vol. 9, No. 8, pp. 83-92
114. Moan, T. and Zheng, X. Y. Quasi-Static Response of Fixed Offshore Platforms to Morison-Type Wave Loadings. *Journal of Engineering Mechanics*, 2009, vol. 135, no. 10, pp. 1057-1068.
115. Taghipour, R., Perez, T. and Moan, T. Time-Domain Hydroelastic Analysis of a Flexible Marine Structure Using State-Space Models. *Journal of Offshore Mechanics and Arctic Engineering - Transactions of the ASME*, 2009, Vol. 131, No. 1.
116. Su, B., Riska, K. and Moan, T. A Numerical Method for the Prediction of Ship Performance in Level Ice Cold Regions *Science and Technology*, 2009, Vol. 60, 177-188.
117. Kota, R. and Moan, T. Gaussian Analysis of an Irregular Wave Impact on Deck. *Journal of Offshore Mechanics and Arctic Engineering*, 2010, Vol. 132, Issue 4- 041302.



118. Aarsaether, K.G., and Moan, T. Adding the Human Element to Ship Manoeuvring Simulations. *Journal of Navigation*, 2010, Vol.63, pp. 695-716.
119. Chen, X., Moan, T. and Fu, S. Extreme Response of Very Large Floating Structure Considering Second-Order Hydroelastic Effects in Multidirectional Irregular Waves. *Journal of Offshore Mechanics and Arctic Engineering*, 2010, Vol.134. Issue 4, 041601.
120. Hals, J., Falnes, J., and Moan, T. Constrained Optimal Control of a Heaving Buoy Wave-Energy Converter. *Journal of Offshore Mechanics and Arctic Engineering*, 2010, Vol. 133, Issue 1, 011401.
121. Su, B., Riska, K. and Moan, T. A Numerical Method for the Prediction of Ship Performance in Level Ice. *Cold Regions Science and Technology*, 2010, Vol. 60, pp. 177-188.
122. Su, B., Riska, K. and Moan, T. Numerical Simulation of Local Ice Loads in Uniform and Randomly Varying Ice Conditions. *Cold Regions Science and Technology* 2010, vol. 65, pp. 145-159.
123. Yang, L., Hals, J. and Moan, T. Analysis of Dynamic Effects Relevant for the Wear Damage in Hydraulic Machines for Wave Energy Conversion. *Ocean Engineering*, 2010, Vol. 37, No. 13, pp. 1089-1012.
124. Amlashi, H.K.K. and Moan, T. A Proposal of Reliability-Based Design Formats for Ultimate Hull Girder Strength Checks for Bulk Carriers under Combined Global and Local Loadings. *Journal of Marine Science and Technology*. 2011, Vol. 16, iss. 1, pp. 51-67.
125. Arswendy, A., Liasjoe, O. and Moan, T. Static Response of an LNG Containment System of GTT No. 96 Type. *International Journal of Offshore and Polar Engineering*. Vol. 21, iss. 3, pp. 198–208.
126. Dong, W., Moan, T. and Gao, Z. Long-Term Fatigue Analysis of Multi-Planar Tubular Joints for Jacket-Type Offshore Wind Turbine in Time Domain. *Journal of Engineering Structures* Vol. 33, pp. 2002-2014.
127. Graczyk, M. and Moan, T. Structural Response to Sloshing Excitation in Membrane LNG Tank. *Journal of Offshore Mechanics and Arctic Engineering*. Vol. 133, iss. 2/021103-1 (9 pages).
128. Hals, J., Falnes, J. and Moan, T. A Comparison of Selected Strategies for Adaptive Control of Wave Energy Converters. *Journal of Offshore Mechanics and Arctic Engineering*. Vol. 133, iss. 3/ 031101-1 (12 pages).
129. Hals, J., Falnes, J. and Moan, T. Constrained Optimal Control of a Heaving Buoy Wave-Energy Converter. *Journal of Offshore Mechanics and Arctic Engineering*. Vol. 133, Iss. 1, 011401 (15 pages)
130. Karimirad, M. and Moan, T. Extreme Dynamic Structural Response Analysis of Catenary Moored Spar Wind Turbine in Harsh Environmental Conditions. *Journal of Offshore Mechanics and Arctic Engineering*, 2011. Vol. 133, iss. 4, 041103-1
131. Karimirad, M., Meissonnier, Q., Gao, Z. and Moan, T. Hydroelastic Code-to-Code Comparison for a Tension Leg Spar-Type Floating Wind Turbine. *Journal of Marine Structures*. 2011. Vol. 24, iss. 4, pp. 412-435.
132. Moan, T. Life-Cycle Assessment of Marine Civil Engineering Structures. *Structure and Infrastructure Engineering*. Vol. 7, iss. 1, pp. 11-32.
133. Saha, N., Gao, Z., Moan, T. and Naess, A. Short Term Extreme Response Analysis of a Jacket Supporting an Offshore Wind Turbine. *Wind Energy*. (to appear)
134. Schoen, M.P., Hals, J. and Moan, T. Wave Prediction and Robust Control of Heaving Wave Energy Devices for Irregular Waves. *IEEE Transactions on Energy Conversion*. Vol. 26, iss. 2, pp. 627-638.
135. Shu, Z. and Moan, T. Ultimate Hull Girder Strength of a Bulk Carrier under Combined Global and Local Loads in the Hogging and Alternate Hold Loading Condition Using Nonlinear Finite Element Analysis. *Journal of Marine Science and Technology*. Accepted
136. Shu, Z. and Moan, T. Reliability Analysis of a Bulk Carrier in Ultimate Limit State under Combined Global and Local Loads in the Hogging and Alternate Hold Loading Condition. *Journal of Marine Structures*. 2011. Vol. 24. pp. 1-22.
137. Su, B., Riska, K. and Moan, T. Numerical Study of Ice-Induced Loads on Ship Hulls. *Journal of Marine Structures*. 2011. Vol. 24, pp. 132-152.
138. Su, B., Riska, K. and Moan, T. Numerical Simulation of Local Ice Loads in Uniform and Randomly Varying Ice Conditions *Cold Regions Science and Technology* .2011. Vol. 65, pp. 145-159
139. Xing, Y. H., Pedersen, E. and Moan, T. An Inertia-Capacitance Beam Substructure Formulation Based on the Bond Graph Method with Application to Rotating Beams. *Journal of Sound and Vibration*. Vol. 330, pp. 5114-5130.
140. Yang, L. and Moan, T. Dynamic Analysis of Wave Energy Converter by Incorporating the Effect of Hydraulic Transmission Lines. *Ocean Engineering*. Vol. 38, iss. 16, pp. 1849-1860.
141. Yang, L. and Moan, T. Numerical Modelling of Wear Damage in Seals of a Wave Energy Converter with Hydraulic Power Take-Off under Random Loads. *Tribology Transactions*. Vol. 54, iss.1, pp. 44-56.



142. Zhu, S., Wu, M.K. and Moan, T. Experimental Investigation of Hull Girder Vibrations of a Flexible Backbone Model in Bending and Torsion. *Applied Ocean Research*. 2011. Vol. 33, iss. 4, pp. 252-274.
143. Zhu, S., Wu, M.K. and Moan, T. Experimental and Numerical Study of Wave-Induced Load Effects of Open Ships in Oblique Seas. *Journal of Ship Research*. 2011. Vol. 55, iss. 2, pp. 100-123.
144. Arswendy, A. and Moan, T. Failure Analysis of a Liquid Natural Gas (LNG) Containment System – Bending Failure of Plywood Component. *Wood Material Science & Engineering*. 2012; 7 (1): 30-40.
145. Babarit, A., Hals, J., Muliawan, M.J., Kurniawan, A., Moan, T. and Krokstad, J. Numerical Benchmarking Study of a Selection of Wave Energy Converters. *Renewable Energy*. 2012; 41: 44-63.
146. Chen, H. and Moan, T. Modeling the Human Element in Emergency Situations of Offshore Marine Operations. *Journal of Reliability Engineering and System Safety*. (to appear)
147. Fu, S. and Moan, T. Dynamic Analyses of Floating Fish Cage Collars in Waves. *Aquacultural Engineering*. 2012; 47: 7-15.
148. Jia, H. and Moan, T. The Effect of Sloshing in Tanks on the Hull Girder Bending Moments and Structural Reliability of Damaged Vessels. *Journal of Ship Research*. 2012; 56 (1): 48-62.
149. Jia, H., and Moan, T. Global Responses of Struck Ships in Collision with Emphasis on Hydrodynamic Effects. *Journal of Offshore Mechanics and Arctic Engineering*. submitted
150. Jia, H., and Moan, T. The Effect of Sloshing on Hull Girder Loads and the Structural Reliability of Damaged Vessels. *Journal of Ship Research*. 2012; 56 (1): 48-62.
151. Karimirad, M. and Moan, T. A Simplified Method for Coupled Analysis of Floating Offshore Wind Turbines. *Journal of Marine Structures*. 2012; 27 (1): 45-63.
152. Karimirad, M. and Moan, T. Feasibility of the Application of a Spar-type Wind Turbine at a Moderate Water Depth DeepWind conference, 19-20 January 2012, Trondheim, Norway, will be published by *Journal of Energy Procedia*, Elsevier
153. Karimirad, M. and Moan, T. Wave and Wind Induced Dynamic Response of a Spar-Type Offshore Wind Turbine. *Journal of Waterway, Port, Coastal, and Ocean Engineering*. 2012; 138 (1): January 1.
154. Kurniawan, A., Pedersen, E. and Moan, T. Bond Graph Modelling of a Wave Energy Conversion System with Hydraulic Power Take-Off. *Renewable Energy*. 2012; 38 (1): 234-244.
155. Saha, N., Gao, Z., Moan, T. and Naess, A. Short Term Extreme Response Analysis of a Jacket Supporting an Offshore Wind Turbine. *Wind Energy*. (to appear)
156. Shu, Z. and Moan, T. Ultimate Hull Girder Strength of a Bulk Carrier under Combined Global and Local Loads in the Hogging and Alternate Hold Loading Condition Using Nonlinear Finite Element Analysis. *Journal of Marine Science and Technology*. 2012; 17 (1): 94-113.
157. Yang, L., Hals, J. and Moan, T. Comparative Study of Bond Graph Models for Hydraulic Transmission Lines With Transient Flow Dynamics. *Journal of Dynamic Systems, Measurement, and Control*. 2012; 134 (3): 031005 (13 pages).
158. Zhou, L., Su, B., Riska, K. and Moan, T. Numerical Simulation of Moored Structure Station Keeping in Level Ice. *Cold Regions Science and Technology*. 2012; 71: 54-66.
159. Bachynski, E.E. and Moan, T. Design Considerations for Tension Leg Platform Wind Turbines. *Marine Structures*. 2012; 29 (1): 89-114.
160. Dong, W., Moan, T. and Gao, Z. Fatigue Reliability Analysis of the Jacket Support Structure for Offshore Wind Turbine Considering the Effect of Corrosion and Inspection. *Reliability Engineering & System Safety*. 2012; 106: 11-27.
161. Dong, W., Xing, Y. and Moan, T. Time Domain Modeling and Analysis of Dynamic Gear Contact Force in a Wind Turbine Gearbox with Respect to Fatigue Assessment. *Energies*. 2012; 5 (11): 4350-4371.
162. Jia, H. and Moan, T. The Effect of Sloshing in Tanks on the Hull Girder Bending Moments and Structural Reliability of Damaged Vessels. *Journal of Ship Research*.
163. Karimirad, M. and Moan, T. Feasibility of the Application of a Spar-Type Wind Turbine at a Moderate Water Depth. *Energy Procedia*. 2012; 24: 340-350.
164. Kurniawan, A. and Moan, T. Characteristics of a Pitching Wave Absorber with Rotatable Flap. *Energy Procedia*. 2012; 20: 134-147.
165. Kvittem, M.I., Bachynski, E.E. and Moan, T. Effects of Hydrodynamic Modelling in Fully Coupled Simulations of a Semi-Submersible Wind Turbine. *Energy Procedia*. 2012; 24: 351-362.
166. Bachynski, E.E., Etemaddar, M., Kvittem, M.I., Luan, C., Moan, T. Dynamic analysis of floating wind turbines during pitch actuator fault, grid loss, and shutdown, *Energy Procedia* vol. 35, 210-222.
167. Dong, W., Xing, Y., Moan, T. and Gao, Z. Time Domain-Based Gear Contact Fatigue Analysis of a Wind Turbine Drivetrain Under Dynamic Conditions. *International Journal of Fatigue*. 2013; 48: 133-146.



168. Jia, H. and Moan, T. Global Responses of Struck Ships in Collision with Emphasis on Hydrodynamic Effects. *Journal of Offshore Mechanics and Arctic Engineering*. (Accepted)
169. Jiang, Z., Karimirad, M. and Moan, T. Dynamic Response Analysis of Wind Turbines Under Blade Pitch System Fault, Grid Loss and Shutdown Events. *Wind Energy*. (online June 2013)
170. Jiang, Z., Karimirad, M. and Moan, T. Response Analysis of a Parked Spar-Type Wind Turbine Considering Blade Pitch Mechanism Fault. *International Journal of Offshore and Polar Engineering*. 2013; 23 (2): 120–128.
171. Karimirad, M. Modeling Aspects of a Floating Wind Turbine for Coupled Wave-Wind-Induced Dynamic Analyses. *Renewable Energy*. 2013; 53: 299–305.
172. Karimirad, M. and Moan, T. Stochastic Dynamic Response Analysis of a Tension Leg Spar-Type Offshore Wind Turbine. *Wind Energy*. 2013, 16 (6): 953-973
173. Kurniawan, A. and Moan, T. Optimal Geometries for Wave Absorbers Oscillating About a Fixed Axis. *IEEE Journal of Oceanic Engineering*. 2013; 38 (1): 117-130 .
174. LaCava, W., Xing, Y., Marks, C., Guo, Y. and Moan, T. Three-Dimensional Bearing Load Share Behavior in the Planetary Stage of a Wind Turbine Gearbox. *IET Renewable Power Generation*. 2013; 7 (4): 359–369.
175. Muliawan, M.J., Gao, Z. and Moan, T. Application of the Contour Line Method for Estimating Extreme Response in Mooring Lines of a Two-Body Floating Wave Energy Converter. *Journal of Offshore Mechanics and Arctic Engineering*. 2013; 135 (3): 031301 (10 pages).
176. Muliawan, M.J., Gao, Z., Moan, T. and Babarit, A. Analysis of a Two-Body Floating Wave Energy Converter with Particular Focus on the Effects of Power Take-Off and Mooring Systems on Energy Capture. *Journal of Offshore Mechanics and Arctic Engineering*. 2013; 135 (3): 031902 (12 pages).
177. Muliawan, M.J., Karimirad, M. and Moan, T. Dynamic Response and Power Performance of a Combined Spar-Type Floating Wind Turbine with Large Point Absorber Floating Wave Energy Converter. *Renewable Energy*. 2013; 50: 47-57.
178. Muliawan, M.J., Karimirad, M., Gao, Z. and Moan, T. Extreme Responses of a Combined Spar-Type Floating Wind Turbine and Floating Wave Energy Converter (STC) System with Survival Modes. *Ocean Engineering*. 2013; 65: 71–82.
179. Nejad A. R., Gao Z. and Moan, T. Long-term Analysis of Gear Loads in Fixed Offshore Wind Turbines Considering Ultimate Operational Loadings. *Energy Procedia* Vol. 35, 2013, Pages 187–197
180. Nejad A. R., Gao Z. and Moan, T. On Long-Term Fatigue Damage and Reliability Analysis of Gears under Wind Loads in Offshore Wind Turbine Drivetrains *International Journal of Fatigue*
181. Tan, X., Su, B., Riska, K. and Moan, T. A Six-Degrees-of-Freedom Numerical Model for Level Ice-Ship Interaction. *Cold Regions Science and Technology*. 2013; 92: 1–16.
182. Xing, Y. and Moan, T. Multi-Body Modelling and Analysis of a Planet Carrier in a Wind Turbine Gearbox. *Wind Energy*. 2013. 16(7): 1067-1089
183. Xing, Y., Karimirad, M. and Moan, T. Modelling and Analysis of Floating Spar-Type Wind Turbine Drivetrain. *Wind Energy*. (online February 2013)
184. Yang, L. and Moan, T. Bond Graph Representations of Hydraulic Pipelines Using Normal Modes with Dissipative Friction. *Simulation*. 2013; 89 (2): 199-212.
185. Yang, L. and Moan, T. Prediction of long-term fatigue damage of a hydraulic cylinder of a wave energy converter subjected to internal fluid pressure induced by wave loads *International Journal of Marine Energy*. 2013; 2: 43–60
186. Zhou, L., Moan, T., Riska, K., and Su, B. Heading Control for Turret-moored Vessel in Level Ice Based on Kalman Filter with Thrust Allocation *Journal of Marine Science and Technology* 2013; 18: 460-470.
187. Zhou, L., Riska, K.A., Moan, T. and Su, B. Numerical Modeling of Ice Loads on an Icebreaking Tanker: Comparing Simulations with Model Tests. *Cold Regions Science and Technology*. 2013; 87: 33–46.
188. Zhou, L., Riska, K.A., von Bock und Polach, R., Moan, T. and Su, B. Experiments on Level Ice Loading on an Icebreaking Tanker with Different Ice Drift Angles. *Cold Regions Science and Technology*. 2013; 85: 79-93.
189. Zhu, S. and Moan, T. Experimental Investigation of the Wave-Induced Nonlinear Vertical Load Effects of an Ultra-Large Containership Model in Severe Head and Oblique Seas. *Marine Structures*. 2014, 35: 1–25
190. Zhu, S. and Moan, T. Investigation into the Nonlinear Hydroelastic Response of an 8600-TEU Containership Model Advancing in Regular Waves. *Ships and Offshore Structures*. (online first)
191. Zhu, S. and Moan, T. New Insight into the Wave-Induced Nonlinear Vertical Load Effects of Ultra-Large Container Ships Based on Experiments. *Journal of Marine Science and Technology*. 2013; 18 (1): 87-114.



192. Saha, N., Gao, Z., Moan, T. and Naess, A. Short-Term Extreme Response Analysis of a Jacket Supporting an Offshore Wind Turbine. *Wind Energy*. 2014. 17(1): 87-104
193. De Vaal, J.B., Hansen, M.O.L. and Moan, T. Effect of Wind Turbine Surge Motion on Rotor Thrust and Induced Velocity. *Wind Energy*. 2014. 17(1): 105-121.
194. Etemaddar, M., Hansen, M.O.L. and Moan, T. Wind Turbine Aerodynamic Response Under Atmospheric Icing Conditions. *Wind Energy*. 2014. 17(2): 241-265
- 195.

Conference Proceedings

1. Moan, T.: "Comments on the Stress Calculations in Finite Element Displacement models", Discussion, NATO Advanced Study Institute on Finite Element Methods in Continuum Mechanics, Lisbon, 1971.
2. Moan, T.: "Accuracy of Finite Element Calculation of Buckling Loads and Eigenfrequencies for Plates", Discussion, Int. Ship Struct. Congress (ISSC), Hamburg, September 1973.
3. Moan, T.: "On the Local Distribution of Errors by Finite Element Approximations", 1973 Tokyo Seminar on Finite Element Analyses, November 5.-10., 1973. Proceedings published by The University of Tokyo Press, 1973.
4. Moan, T.: "Transition between Steeldeck and Concrete Columns in Offshore Platforms" (in Norwegian), NTH, Annual seminar, January 1975.
5. Moan, T.: "Structural Analysis and Behaviour of Floating Offshore Structures", Notes to Int. Ship Structures Congress Committee II.1, April 1975.
6. Moan, T.: "Notes on the Finite Element Modelling of Structures Composed of thin Plates", Notes to Int. Ship Structures Congress Committee II.1, April 1975.
7. Moan, T., Haver, S. and Vinje, T.: "Stochastic Dynamic Response Analysis of Offshore Platforms, with particular reference to Gravity-Type Platforms", Offshore Technology Conference, Paper No. 2407, Houston, 5.-8. May, 1975.
8. Moan, T. and Søreide, T.H.: "Analysis of stiffened Plates considering Non-linear Material and Geometric Behaviour using Finite Elements", World Congress on Finite Element Methods in Structural Mechanics, Bournemouth, England, 12.-17. October 1975.
9. Moan, T.: "Summary of Structures Sessions at BOSS '76", Vol. II. Proceedings Int. Conf. on the Behaviour of Offshore Structures, NTH, Trondheim, August 1976.
10. Søreide, T.H., Bergan, P.G. and Moan, T.: "Ultimate Collapse Behaviour of Stiffened Plates using Alternative Finite Element Formulations", Int. Conf. on Steel Plated Structures, Imperial College, London, July 1976.
11. Moan, T., Syvertsen, K. and Haver, S.: "Dynamic Analysis of Gravity Platforms subjected to Random Wave Excitation", Invited paper, SNAME, Spring Meeting, San Francisco, May 1977.
12. Moan, T.: "Structural Aspect of Fixed and Floating Offshore Structures", Seminar on the Safety of Structures under Dynamic Loading, Trondheim, June 1977.
13. Moan, T. and Sigbjørnsson, R.: "Stochastic Sea Load Effect Analysis for Probabilistic Design of Fixed Offshore Platforms", Invited paper, 2nd Int. Conf. on Structural Safety and Reliability, Munich, September 1977.
14. Moan, T. and Graff, W. J.: "Structural Analysis and Design of Steel and Concrete Fixed Offshore Structures", Invited paper, Conference on Offshore Engineering, University of Aalborg, Aalborg, April 1978.
15. Nordsve, N.T. and Moan, T.: "Numerical Collapse Analysis of Compression Members", International Conference on Engineering Application of the Finite Element Method, A/S Computas/Det Norske Veritas, May 1979.
16. Nordsve, N.T. and Moan, T.: "Numerical Prediction of Ultimate Behaviour of Marine Steel Structures", Proc. Int. Symposium on Advanced in Marine Technology, Trondheim, June 13.-15., 1979.
17. Moan, T.: "Wider Aspects of Petroleum Technology, and in particular the Application of Hazard Analysis, Risk Analysis and Event/Consequence Analysis to Offshore Systems and Operations", Joint UK/Norwegian Seminar on Education and Research in Offshore Petroleum Technology, NTH. Published by "British Council", The Croyden Press, 1980.
18. Guedes Soares, C. and Moan, T. "Risk Analysis and Safety of Ship Structures", CONGRESSO 81, Ordem dos Engenheiros, Lisboa, Dec. 14.-19., 1981.
19. Moan, T., Berge, S. and Holthe, K.: "Analysis of the Fatigue Failure of the "Alexander L. Kielland"", ASME Winter Annual Meeting, Washington D.C., November 1981.
20. Moan, T. and Holand, I.: "Risk Assessment of Offshore Structures. Experience and Principles", Proc. Third Int. Conf. on Struct. Safety and Reliability, (eds. Moan and Shinozuka) Elsevier, Amsterdam, 1981 (Also Sixth Conf. on Port and Ocean Engng. under Arctic Conditions, Quebec, July 1981).



21. Almar-Næss, A., Haagenen, P.J., Lian, B., Moan, T. and Simonsen, T.: "Investigation of the Alexander L. Kielland Failure - Metallurgical and Fracture Analysis", Paper No. 4236, Offshore Technology Conference, Houston, 1982.
22. Moan, T. et al.: "Linear Structural Response", Report of Committee II.2, Int. Ship Structures Congress, Paris, Aug. 31.-Sept. 3. 1982.
23. Fylling, J. and Moan, T.: "Analysis of Towline Forces in Ocean Towing Systems. Extreme values of Non-linear Surge Motion and Towline Force", The Ocean Structural Dynamics Symposium '82, Oregon State University, Corvallis, Oregon.
24. Guedes Soares, C. and Moan, T.: "On the Uncertainties related to the Extreme Hydrodynamic Loading of a Cylindrical Pile", in "Reliability Theory and its Applications in Structural and Soil Mechanics", Martinus Nijhoff Publ., Den Hague, 1982.
25. Moan, T.: "New Norwegian Regulations for Mobile Units. Safety Philosophy", NPF Seminar, Stavanger, September 14. 1982.
26. Søreide, T.H., Moan, T., Amdahl, J. and Taby, J.: "Analysis of Ship/Platform Impacts", Third Int. Conference on the Behaviour of Offshore Structures, Aug. 2.-5., Mass. Inst. of Technology, Boston, 1982.
27. Mo, O. and Moan, t.: "Environmental Load Effect Analysis of Guyed Towers", Proc. 2nd. Int. Offshore Mechanics/Arctic Engineering Symposium, New Orleans, February 1984.
28. Mo, O. and Moan, T.: "On Model Uncertainties of Fatigue Load Effects in Compliant Offshore Platforms", ASCE Specially Conference on Probabilistic Mechanics and Structural Reliability, Berkeley, Cal., Jan. 11.-13., 1984.
29. Moan, T. and Amdahl, J.: "On the Risk of Floatel-platform Collision," ASCE Speciality Conference on Probabilistic Mechanics and Structural Reliability, Berkeley, Cal., Jan. 11.-14., 1984.
30. Moan, T.: "In service Inspection and Monitoring of Offshore Platforms," CISM Course, in Offshore Engineering, Udine, 5.-9. Sept. 1984.
31. Eide, O., Berge, S. and Moan, T.: "Fatigue Capacity of Large Scale Plate Girders", Paper No. 5001, Offshore Technology Conference, Houston, 1985.
32. Guedes Soares, C. and Moan, T.: "Uncertainty Analysis and Code Calibration of the Primary Load Effects in Ship Structures", Proc. Third ICOSSAR Conf., Kobe, 27.-29. May, 1985.
33. Moan, T., Amdahl, J., Engseth, A.G. and Granli, T.: "Collapse Behaviour of Trusswork Steel Platforms", Proc. BOSS '85, Delft, 1985.
34. Moan, T.: "The Progressive Structural Failure of the Alexander L. Kielland Platform", in "Case Histories in Offshore Engineering", G. Maier (ed.), Springer-Verlag, Berlin 1985.
35. Moan, T.: "Regulations and Codes for Station-Keeping Systems for Floating Platforms", Norwegian Soc. Chartred Engn., Fagernes, Sept.16-18, 1985.
36. Moan, T.: "Safety Appraisal for Floating Production Systems", Conf. on Prod. Systems, IBC, London, Dec. 16-17, 1985.
37. Mørch, M. and Moan, T.: "Comparison between Measured and Calculated Behaviour of a Moored Semi-submersible Platform", Proc. BOSS '85, Delft, 1985.
38. Taby, J. and Moan, T.: "Collapse and Residual Strength of Damaged Tubular Members", Proc. BOSS '85, Delft, 1985.
39. Eide, O., Berge, S. and Moan, T.: "Size Effects in Fatigue of Large Scale Plate Girders", Proc. OTC, Paper 5309, Houston, 1986.
40. Moan, T.: "Advances in the Design of Offshore Structures for Damage-tolerance" Adm. Research Establishment Conf. on Advances in Marine Structures, Dunfermline, May 1986.
41. Yao, T., Taby, J. and Moan, T.: "Ultimate Strength and Post-Ultimate Strength Behaviour of Damaged Tubular Members in Offshore Structures", Proc. 5th OMAE Conf., Tokyo, 1986.
42. Hessen, G. and Moan, T.: "Fracture Mechanics Analysis of Stiffened Tubular Members", Proc. PRADS, NTH, Trondheim, June 1987.
43. Leira, B.J. and Moan, T.: "Extremes of Combined Wave Load Effects for Design of Gravity Structures", Proc. 6th OMAE, Houston, March 2-5, 1987.
44. Moan, T. and Taby, J.: "Strength Assessment of Damaged Offshore Structures, Brasil Offshore '87, August 1987, Proc. published by Pentech Press, London.
45. Moan, T.: "On Hazard-Tolerance Criteria for Marine Structures"; Proc. ICASP, Lind, N. (ed.), Univ. of Waterloo, 1987.
46. Moan, T. et al.: "Fatigue Assessment of Hull Girder for Ship Type Floating Production Vessels", Invited paper, Proc. Conf. on Floating Vessels, City University, London, September 1987.



47. Moan, T.: "Structural Risk Assessment for Design and Operation", Proc. Offshore Safety Conf., IBC, London, Oct. 5.-7., 1987.
48. Taby, J. and Moan, T.: "Ultimate Behaviour of Circular Tubular Members with Large Initial Imperfections", Proc. SSRC, Houston, March 23-25, 1987.
49. Yao, T. and Moan, T.: "Elastic-Plastic Behaviour of Structural Members and Systems with Crack Damage (1st report)", SNAJ Spring Meeting.
50. Guedes Soares, C. and Moan, T.: "Statistical Analysis of Still-water Load Effects in Ship Structures, SNAME Annual Meeting, New York, Oct. 1988.
51. Moan, T. and Webster, W.C. "Consequence Analysis of Tether Failure", Proc. Fifth BOSS Conf., Trondheim, June 21.-24., 1988.
52. Moan, T. and Amdahl, J.: "Catastrophic Failure Modes of Marine Structures", Invited paper, Proc. Int. Symp. on Structural Failure, MIT", Cambridge June 6-8, 1988. Also published in Chapter 14, of "Structural Failures", Wierzbicki, T. and Jones, N. (eds), John Wiley, 1989.
53. Wessel, H.-J. and Moan, T.: "Fracture Mechanics Analysis of Fatigue in Plate Girders", Thirteenth IABSE Conf., Helsinki, June 6-10, 1988.
54. Moan, T., Marley, M.J. and Jiao, G.: "Probabilistic Risk Analysis of TLP Tether Fracture", Proc. Fifth ICOSSAR Conf., San Francisco, 7.-11. Aug. 1989.
55. Moan, T., Leira, B.J. and Olufsen, A.: "Component Ultimate Limit State Reliability Analysis of a Jacket Platform", Proc. Fifth ICOSSAR Conf., San Francisco, 7.-11. Aug. 1989.
56. Olufsen, A., Karunakaran, D. and Moan, T.: "Uncertainty and Sensitivity Analyses of Wave and Current Induced Extreme Load Effects in Offshore Structures", Proc. Eight OMAE Conf., Hague, March 1989.
57. Jiao, G. and Moan, T.: "Probabilistic Calibration of Design Criteria for Marine Risers". Invited paper, 4th Int. Symp. on Integrity of Offshore Structures, Glasgow 2.-3. July 1990.
58. Wu, Y.-L. and Moan, T.: "A Structural System Reliability Analysis of Jacket Using an Improved Truss Model", Proc. Fifth ICOSSAR Conf., San Francisco, 7.-11. Aug. 1989.
59. Marley, M. and Moan, T.: "Reliability Analysis of TLP Tether Systems", Proc. Ninth OMAE Conf., Houston, 18.-22. Feb. 1990.
60. Moan, T., Leira, B.J. and Olufsen, A.: "Stochastic Dynamic Analysis of Marine Structures subjected to Sea Loads", Invited paper, Proc. EURO DYN'90 Conf., BOCHUM, 5.-7. June 1990.
61. Moan, T.: "Development of Rational Structural Safety Criteria for Offshore Structures, with an Emphasis on Ships", Invited paper, Proc. Sixth Conf. on Floating Production Systems, IBC, London, Dec. 1990.
62. Moan, T. et al.: "Collapse Behaviour of Offshore Structural Systems," Invited paper, Int. Conf. on Advances in Marine Structures, ARE, Dunfermline, May 1991.
63. Haugen, S. and Moan, T.: "Probabilistic Evaluation of Frequency of Collision between Ships and Offshore Platforms", Proc. ICASP Conf., Mexico City, June 1991.
64. Hellan, Ø., Skallerud, B., Amdahl, J. and Moan, T.: "Reassessment of Offshore Steel Structures: Shakedown and Cyclic Nonlinear FEM Analysis", Proc. ISOPE Conf., Edinburgh, 1991.
65. Fujikubo, M., Berge, S. and Moan, T.: "CTOD Estimates of Surface Cracked Wide Plates in Bending", Int. Conf. Mechanical Behaviour of Materials - VI, Kyoto, Japan, 29. July - 2. August 1991.
66. Karunakaran, D., Leira, B.J., Spidsøe, N. and Moan, T.: "Fatigue Life Estimation for Dynamically Sensitive Slender Offshore Structure Exposed to Non-Gaussian Wave Loading", Proc. Int. Symp. on Fatigue and Fracture in Steel and Concrete Struct., Madras, Dec. 1991.
67. Moan, T., Skallerud, B. and Skjåstad, O., "Structural Analysis and Design of Hydrofoils and Struts", Proc. First Int. FAST Conf., Tapir Publ., Trondheim, May 1991.
68. Theotokoglou, E.E. and Moan, T., "Stress Analysis of a GRP/PVC Sandwich T-joint", The Eight Int. Conf. on Composite Materials, Honolulu, July 1991.
69. Bai, Y., Igland, R. and Moan, T.: "Collapse of thick tubes under pressure, tension, bending and their combinations", Proc. ISOPE, San Francisco, June 1992.
70. Haugen, S. and Moan, T.: "Frequency of Collision between Ships and Platforms", Proc. OMAE, Calgary, 1992.
71. Hermundstad, O., Moan, T. and Nordal, H.: "Finite Element Analysis of Sandwich Aircushion Catamaran", Proc. Int. Conf. on Nautical Sandwich Construction. IFREMER, Paris, Dec. 1992.
72. Karunakaran, D., Leira, B.J., Haver, S. and Moan, T.: "Parametric Influence on Extreme Dynamic Response of Drag Dominated Platforms", Proc. ISOPE, San Francisco, June 1992.
73. Karunakaran, D., Leira, B.J., Spidsøe, N., Gudmestad, O. and Moan, T.: "Nonlinear Long-term Response of Dynamically Sensitive Drag-dominated Offshore Platforms", Proc. BOSS Conf., Imperial College, July 1992.



74. Marley, M.J. and Moan, T.: "Time Variant Formulation for Fatigue Reliability", Paper No. 92-1203. Proc. OMAE, Calgary, 1992.
75. Moan, T., Estefen, S.F., Sævik, S. and Zimmer, R.A.: "Limit States for the Ultimate Strength of Tubulars Subjected to Pressure, Bending and Tension Loads", Invited paper, Proc. C.S. Smith Memorial Conf., DRA, Dunfirmline, July 1992.
76. Nilsen, P.E., Moan, T. and Gustavsson, C.-G.: "Dynamic and Quasi-static Indentation of PVC/GRP Sandwich Panel", Proc. Second Int. Conf. on Sandwich Constructions, Univ. of Florida, Gainesville, FL, March 1992.
77. Bai, Y., Igland, R. T. and Moan, T.: "Limit States of Pipes under Tension and Bending", Proc. ISOPE, Singapore, 1993.
78. Farnes, K.A. and Moan, T.: "Extreme Response of a Flexible Riser System using a Complete Nonlinear Longterm Approach", Proc. ISOPE, Singapore 1993.
79. Hoen, C., Moan, T. and Remseth, S.: "System Identification of Structures exposed to Environmental Loads", Proc. Second EURODYN, Trondheim, 1993.
80. Igland, R.T. and Moan, T.: "Reliability Analysis of Deep Water Pipelines during Laying for Combined Pressure, Tension and Bending Loads", Proc. ISOPE, Singapore 1993.
81. Karunakaran, D., Leira, B.J. and Moan, T.: "Reliability Analysis of Drag-dominated Offshore Structures", Proc. ISOPE, Singapore, 1993.
82. Karunakaran, D., Spidsøe, N., Gudmestad, O.T. and Moan, T.: "Stochastic Dynamic Time Domain Analysis of Drag-dominated Offshore Platforms", Proc. Second EURODYN, Trondheim, 1993.
83. Leira, B.J., Karunakaran, D. and Moan, T.: "Reliability Assessment of Marine Structures by Long-Term Response Analysis and Importance Sampling", ICOSSAR, Innsbruck, Aug. 9-13 1993.
84. Marley, M.J. and Moan, T.: "Approximate Time Variant Analysis for Fatigue", ICOSSAR, Innsbruck, Aug. 9-13 1993.
85. MingKang Wu, Hermundstad, O.A. and Moan, T.: "Hydroelastic Analysis of Ship Hulls at High Forward Speed", Proc. Second FAST Conf., Yokohama, 1993.
86. Moan, T., Karsan, D. and Wilson, T.: "Analytical Risk Assessment and Risk Control of Floating Platforms subjected to Ship Collisions and Dropped Objects", Paper No. 7123, Proc. OTC, Houston 1993.
87. Moan, T., Hovde, G.O., and Blanker, A.M.: Reliability-based Fatigue Design Criteria for Offshore Structures Considering the Effect of Inspection and Repair", Paper No. 7189, Proc. OTC, Houston, 1993.
88. Moan, T., Hovde, G.O., and Jiao, G.: "Fatigue Reliability Analysis of Offshore Structures Considering the Effect of Inspection and Repair", ICOSAR, Innsbruck, Aug. 9-13 1993.
89. Stewart, G., Moan, T., Amdahl, J. and Eide, O.I.: "Non-linear Re-assessment of Jacket Structures under Extreme Cyclic Storm Loading", Proc. OMAE, Glasgow, 1993.
90. Eknes, M. and Moan, T.: "Escalation of Explosion Events Offshore", Conf. on Offshore Structural Design - Hazards, Safety and Engineering, ERA, 15.-16.Nov. 1994.
91. Hellan, Ø., Moan, T. and Drange, S.O.: "Use of Nonlinear Pushover Analyses in Ultimate Limit State Design and Integrity Assessment of Jacket Structures", Proc. 7th BOSS Conf., Mass. Inst. of Technology, July 1994, Proc. publ. by Pergamon Press, 1994, Vol. 3, pp 323-345.
92. Hermundstad, O.A., MingKang, Wu and Moan, T.: "Hydroelastic Response Analysis of a High Speed Monohull", Proc. Int. Conf. on Hydroelasticity, Trondheim, May 1994.
93. Hovde, G.O. and Moan, T.: "Fatigue Reliability of TLP Tether Systems considering the Effect of Inspection and Repair", Proc. 7th BOSS Conf., Mass Inst. of Technology, July 1994, Proc. published by Pergamon Press, 1994, Vol. 3, pp 85-100.
94. Karunakaran, D., Leira, B.J., Svanø, G. and Moan, T.: "Foundation Reliability of Jack-up-Platform", Proc. 13th OMAE Conf., Houston; ASME, New York, 1994.
95. Wang, X., Moan, T. and Amdahl, J.: "Finite Element Stress Analysis of the Midship Transverse Frame in an Offshore Production Ship", Proc. ISOPE, Vol. IV, Osaka Univ., Osaka, 1994, pp 443-451.
96. Azadi, M.R. E., Moan, T., Amdahl, J.: "Dynamic effects on the performance of the steel offshore platforms in extreme waves", Proc. First EUROSTEL Conf., Athens, Proc. published by A.A. Balkema, Rotterdam, 1995, pp 411-420.
97. Bech, S.M. and Moan, T.: "Behaviour of Sandwich T-joints under Concentrated Loads", Proc. Third Int. Conf. on Sandwich Construction, Univ. of Southampton, Vol. 2, 12-15. Sept. 1995.
98. Hellan, Ø., Moan, T.: "Second-order inelastic analyses in ultimate limit state design of frame structures", Proc. First EUROSTEEL Conf., Athens, 18.-20 May, 1995, Proc. published by A.A. Balkema, Rotterdam, 1995, pp 135-143.



99. Hermundstad, O.A., Aarsnes, J.V. and Moan, T.: "Hydroelastic Analysis of a Flexible Catamaran Model and Comparison with Experiments", Third FAST Conf., C.F.I. Kruppa (ed.), Schiffsbau technische Gesellschaft, Kiel, Sept. 1995, Vol.1, pp 487-500.
100. Hovde, G.O. and Moan, T.: "Fatigue and Fracture Reliability of TLP Tether Systems before and after a Tether Failure", Proc. Seventh ICASP Conf., Paris, Proc. published by A.A. Balkema, 1995.
101. Moan, T. et al, "General Principles on Reliability for Structures", IS2394, Int. Organization for Standardization, ISO.TC98/SC2/WG1 Secretariate, Building Research Establishment, Garston, Watford, UK.
102. Rigo, P.A. D.A., Moan, T., Frieze, P.A. and Chryssanthopoulos, M.: "Benchmarking of Ultimate Strength Predictions for Longitudinally Stiffened Panels", Proc. 6th PRADS Conf., Seoul, 17.-22. September 1995, pp. 2.869-2.882.
103. Theotokoglou, E.E. and Moan, T.: "Nonlinear Behaviour of Sandwich T-joints". Proc. Third Int. Conf. on Sandwich Construction, Univ. of Southampton, Vol. 2, 12-15. Sept. 1995.
104. Wang, X. and Moan, T.: "Reliability-based Design of Stiffened Panels in Production Ships under Combined Biaxial and Lateral Loading". Proc. 6th PRADS Symp., Seoul, Korea, 17.-22. Sept. 1995, pp. 2.795-2.807.
105. Eknes, M.L. and Moan, T.: "Modelling of Escalation of Initial Gas Explosions on Offshore Installations", Proc. OMAE, Published by ASME, New York, 1996, Vol. II, pp. 401 – 412.
106. Emami, M.R., and Moan, T.: "Ductility demand of simplified pile-soil-jacket system under extreme sea waves and earthquakes", Third European Conf. on Structural Dynamics, Balkema Publ. G. Augusti et al. (eds.) Rotterdam, 1996, pp. 1029 – 1038.
107. Moan, T. and Hermundstad, O.A., "Local and Global Ship Design in View of Hydroelasticity", Proc. Int. Seminar on Hydroelasticity, Trondheim, Nov. 1, 1996.
108. Wu, M.K., Aarsnes, J, Hermundstad, O.A., and Moan, T.: "A Practical Predication of Wave-Induced Structural Response in Ships with Large Amplitude Motion", Twenty-first Symposium on Naval Hydrodynamics, Proc. published by Office of Naval Research, Washington DC, 1996, pp. 148 – 161.
109. Hermundstad, O.A., Aarsnes, J.V., Moan, T., "Hydroelastic Analysis of High Speed Catamarans in Irregular Waves", FAST Conf., Baird Publ., Vol.1 1997, pp 447-454.
110. Hovde, G.O. and Moan, T., "Fatigue and Overload Reliability of Mooring System", Paper No. Proc. 7th ISOPE, Vol. IV, pp. 145-152, 1997.
111. Moan, T., 1997, "Current Trends in the Safety of Offshore Structures", Keynote Lecture, Proc. 7th ISOPE, Vol. IV, pp. 1-12, 1997.
112. Moan, T., Hellan, Ø. and Emami, E.R., 1997. "Nonlinear Dynamic versus Static Analysis of Jacket Systems for Ultimate Limit State Check", Invited, Proc. Int. Conf. Advances in Marine Structures III, Dunfirmline.
113. Moan, T., Vårdal, O.T., Hellevig, N.C. and Skjoldli, K. 1997, "In-Service Observations of Cracks in North Sea Jackets, A Study on Initial Crack Depth and POD Values", Proc. 16th OMAE, Paper No. 1335, Yokohama, Japan.
114. Sagli, G., Wu, MK, and Moan, T., "Nonlinear Wave Load Effects for Design of Slender Monohull Vessels", Proc. NAV'97, Napoli, 1997.
115. Sotberg, T., Moan, T., Bruschi, R., Jiao, G. and Mørk, K.J., "The Superb Project; Recommended Target Safety Levels for Limit State Based Design of Offshore Pipelines, Proc. OMAE Conf., 1997 ASME, Vol. V, pp. 71-77.
116. Tveiten, B. W., Moan, T., "Fatigue of Aluminium Stiffener-Girder Connection", FAST Conf., Baird Publ, Vol 2 1997, pp. 637-646.
117. Vårdal, O.T. and Moan, T., 1997, "Predicated versus Observed Fatigue Crack Growth Validation of Probabilistic Fracture Mechanics Analysis of Fatigue in North Sea Jackets", Proc. 16th OMAE, Paper No. 1334, Yokohama, Japan.
118. Heggelund, S.E., Tveiten, B.W. and Moan, T., "Fatigue analysis of high speed aluminium catamarans", Proc. Third Int. Forum on Aluminium Ships, published by Qantic Media Ltd., London, 1998.
119. Iglund, R.T. and Moan, "Reliability Analysis of Pipelines during Laying, considering Ultimate Strength and Combined Loading", Proc. OMAE, 1998.
120. Jin, W.L. and Moan, T., "Importance sampling method in rotated V-space", Proc. ICOSSAR, A.A. Balkema, 1998.
121. Moan, T., "Research and Applications Developments", Invited, Proc. Int. Workshop on Platform Requalification, 17th OMAE Conf., 1998.
122. Moan, T., "Target levels for Reliability-based Reassessment of Offshore Structures", Proc. ICOSSAR, A.A. Balkema, 1998.



123. Moan, T., "Target levels for structural reliability and risk analysis of offshore structures", in Risk Reliability in Marine Technology, Guedes Soares, C. (ed.), A. A. Balkema publ. 1998, pp. 351-368.
124. Moan, T. and Song, R., "Implication of Inspection Updating on System Fatigue Reliability of Offshore Structures", Proc. OMAE, 1998.
125. Song, R. and Moan, T. "Fatigue Reliability of Large Catamaran Considering Inspection Updating", Proc. ISOPE, 1998.
126. Stahl, B., Moan, T. et al., "Risk and Reliability Methods in Engineering Practice and Public Policy", Invited, Panel debate, Proc. ICOSSAR, A.A. Balkema, 1998.
127. Vårdal, O.T. and Moan, T., "Validation of Fatigue Assessment Methods based on In-service Observations", Proc. Conf. on Inspection and Maintenance Strategies, New Orleans, 14-15. Sept. 1998, Proc. published by IBC, London.
128. Økland, O.D. and Moan, T., Prediction of Slamming Loads and Extreme Structural response for Large Twin Hull Vessels", Proc. ISOPE, 1998.
129. Økland, O.D., Moan, T. and Aarsnes, J.V. (1998), "Structural response in large twin hull vessels exposed to severe wet deck slamming", Proc. PRADS Conf., A.A. Balkema, Rotterdam, 1998.
130. Heggelund, S.E., Moan, T. and Oma, S., "Global Structural Analysis of Large Catamarans", Proc. Fifth FAST Conf., SNAME, New York, 1999.
131. Kristensen, Odd H. Holt and Moan, T., "Ultimate strength of aluminium plates under biaxial loading", Proc. Fifth FAST Conf., SNAME New York, 1999.
132. Moan, T., "Dynamics of Marine Civil Engineering Structures", Keynote lecture EURO DYN '99, Prague, A.A. Balkema, Rotterdam, 1999.
133. Moan, T. Johannesen, J.M. and Vårdal, O.T. "Probabilistic Inspection Planning of Jacket Structures", Paper No. 10848, OTC, Houston, 1999.
134. Tveiten, B.W. and Moan, T., "Methods for Evaluating the Fatigue Strength of Welded Aluminium Ship Details", Proc. Fifth FAST Conf., SNAME, New York, 1999.
135. Videiro, P.M. and Moan, T. "Efficient Evaluation of Long-term Distributions", Proc. OMAE-99, St. John's, Newfoundland.
136. Videiro, P.M. and Moan, T. "Reliability Based Design of Marine Structures", Proc. OMAE-99, St. John's, Newfoundland.
137. Vårdal, O.T., Moan, T. and Hellevig, N.C., "Comparison between Observed and Predicted Characteristics of Fatigue Cracks in North Sea Jackets", Paper No. 10847, OTC, Houston, 1999.
138. Gu, X., Chen, R. and Moan, T., "Long Term Wave Data and Their Influence on Design Values of Wave Loads of Ships", Proc. 2nd Int. Congress on Maritime Technological Innovations and Research, Cadiz, Spain, 9-11 Nov. 2000, pp 143-154.
139. Johannesen, J.M., Moan, T. and Vårdal, O.T., "Application of Probabilistic Fracture Mechanics Analysis for Reassessment of Fatigue Life of a Floating Production Unit – Theory and Validation", Paper No. 00-2079, 19th OMAE Conference, New Orleans, 2000.
140. Kristensen, O. H. H. and Moan, T., "Effect of HAZ Properties on the Ultimate Axial Strength of Plates made of Different Aluminium Alloys", Proc. DNV Seminar: Buckling and Ultimate Strength of Ship Structures, September 2000.
141. Moan, Torgeir, "20 år etter Alexander L. Kielland ulykken: hva har vi lært og hva har vi glemt?". Sikkerhetsdagene, NTNU, Trondheim, 25.-26.oktober 2000.
142. Moan, T., "Recent advances in marine structures: abstract". Invited, Pre-congress symposium to ISSC, Tokyo, 28-29. Sept. 2000. SNAJ, Tokyo, Japan.
143. Moan, T., Vårdal, O.T. and Johannesen, J.M., "Probabilistic Inspection Planning of Fixed Offshore Structures", Proc. ICASP 8, Applications of Statistics and Probability, A.A. Balkema, Rotterdam, 2000, pp. 191-200.
144. Videiro, P.M. and Moan, T., "Reliability Analysis of Offshore Structures under Multiple Long-term Wave Load Effects", Proc. ICASP 8, Applications of Statistics and Probability, A.A. Balkema, Rotterdam, 2000, pp. 1165-1173.
145. Vårdal, O.T., Moan, T. and Bjørheim, L.G., "Applications of Probabilistic Fracture Mechanics Analysis for Reassessment of Fatigue Life of a Floating Production Unit- Philosophy and Target Levels", Paper No. 00-2078, 19th OMAE Conference, New Orleans, 2000.
146. Wang, L. and Moan, T., "Stochastic analysis of nonlinear wave load effects in ships", Proc. ICASP 8, Applic. of Statistics and Probability, Melchers, R. and Stewart, M.G. (eds.), A.A. Balkema, 2000, pp. 861-868.
147. Zha, Y., Moan, T. and Hanken, E.; "Experimental and Numerical Study of Torsional Buckling of Stiffeners in Aluminium Panels", Proc. ISOPE, Seattle, 2000.



148. Baaholm, Gro Sagli and Moan, Torgeir, "Estimation of nonlinear long-term extremes of the vertical bending moments in ships". Proc. PRADS' 2001. Shanghai, 16-21. Sept. 2001.
149. Heggelund, S.E., Moan, T., Hoff, J. R. and Oma, S., "Practical Calculation of Global Design Loads and Load Effects for Large High Speed Catamarans", Proc. of 6th FAST Conference, Vol. II, 2001.
150. Moan, T. and Vårdal, O.T., "Reliability-based requalifications of existing offshore platforms". Proc. of PRADS' 2001. Vol II, pp. 939-945, Shanghai, 16-21.Sept. 2001.
151. Moan, T., Gu, Xuekang and Hu, Jiajun, "Design of Slamming Pressures of a High-Speed Hydrofoil-Assisted Catamaran", Proc. of FAST' 2001. Vol. III, pp 55-62.
152. Videiro, P.M. and Moan, T., "Reliability based design of offshore structures", Invited, Proc. Int. PEP-IMP Symposium on Risk and Reliability Assessment for Offshore Structures, Mexico City, December 2001.
153. Wang, Lihua, Moan, T. and Xu, Lilun, "Numerical Simulation of Random Wave Groups". Proc. OMAE' 2001. OMAE-01-5101. Rio de Janeiro, RJ, Brazil.
154. Ye, Naiquan, Moan, T. and Tveiten, B. Wathne, "Fatigue Analysis of Aluminium Box-Stiffener Lap Joints by Nominal, Structural and Notch Stress Range Approaches". Proc. of PRADS' 2001. Vol II, pp. 1053-1059. Shanghai, 16-21.Sept. 2001.
155. Ayala Uruga, Efren and Moan, T., "System reliability issues of offshore structures considering fatigue failure and updating based on inspection", Invited, 1st Int. ASRANet Colloquium, Glasgow, Scotland, UK, July 8-10 2002. Proc. Univ. of Glasgow, P.K. Das, 2002.
156. Chen, H. and Moan, T., "Human Intervention of tanker drive-off in tandem offloading operation", Second Int. Conf. on Human Factors in Ship Design and Operation, RINA HQ, London, October 2002.
157. Chen, Haibo and Moan, T., "Collision Risk Analysis of FPSO-Tanker Offloading Operation". Proc. OMAE'2002. OMAE-02-28103, Oslo, June 23-28, 2002.
158. Chen, Haibo, Moan, T., Haver, S. and Larsen, K., "Prediction of relative motion and probability of contact between FPSO and shuttle tanker in tandem offloading operation". Proc. OMAE'2002. OMAE-02-28101, Oslo, June 23-28, 2002.
159. Ge, Chunhua, Faltinsen, O. M. and Moan, T., "Global Hydroelastic Response of a Catamaran Due to Wetdeck Slamming Accounting for Forward Speed". Proc. OMAE'2002. OMAE-02-28031, Oslo, June 23-28, 2002.
160. Ge, Chunhua, Faltinsen, O.M. and Moan, T., "Modelling of wetdeck slamming for a catamaran at forward speed", 10th Int. Congress of the International Maritime Association of the Mediterranean, Rethymnon, Crete, Hellas, 2002, May. Book of abstracts published by Hellenic Institute of Marine Technology, IMAM2002-54, pp 84.
161. Moan, T. and Wei, Zhong and Vårdal, O.T., "Initial crack depth and POD data based on underwater inspection of fixed steel platforms", Proc. Conf. on Structural Safety and Reliability, Corotis et al, 2002.
162. Moan, T. and Vårdal, O.T., "Probabilistic assessment of fatigue reliability of existing offshore platforms", Proc. Conf. on Structural Safety and Reliability, Corotis et al, 2002.
163. Moan, T., Amdahl, J. and Hellan, Ø., "Nonlinear analysis for ultimate and accidental limit state design and requalification of offshore platforms". Invited, 5th World Congress on Computational Mechanics, July 7-12, 2002. Proc. of WCCM 2002. <http://wccm.tuwien.ac.at> .
164. Tveiten, B.W., Ye, Naiquan and Moan, T., "Recommendations on the selection of structural stress design S-N curve for the fatigue assessment of welded aluminium structures". 8th Int. Fatigue Congress, Stockholm, June 2-6, 2002. Proc. EMAS Fatigue 2002, Vol. 1/5, pp. 387-396.
165. Ye, Naiquan and Moan, T., "Fatigue analysis of aluminium box-stiffener/web frame connections by nominal, structural and notch stress range approaches". 8th Int. Fatigue Congress, Stockholm, June 2-6, 2002. Proc. EMAS Fatigue 2002, Vol. 1/5, pp 437-444.
166. Chen, H. and Moan, T., "FPSO-Shuttle Tanker Collision Risk Reduction", Paper 2003-37108, Proc. OMAE, Cancun, Mexico, June 8-13, 2003, pp. 85-93.
167. Moan, T., "Towards Structural Design of High Speed Craft by Direct Calculations", Keynote lecture, Proc. FAST 2003, Ischia, Italy.
168. Moan, T. "Marine structures for the future – a Sea of Opportunities", Inaugural Keppel Lecture, National University of Singapore, Singapore, July 18 2003. Also first issue of J. Marine Structures and Ocean Technology.
169. Wang, L. and Moan, T., "Modelling wave loads on ships using peaks over threshold method", Proc. 8th Int. Conf. on Applications of Statistics and Probability, San Francisco 2003, pp. 861-868.
170. Økland, O.D., Zhao, R. and Moan, T. "Numerical Assessment of Segmented Test Model Approach for Measurement of Whipping Response", Proc. FAST 2003, Ischia, Italy.



171. Chen, H., Moan, T. and Verhoeven, H. "Safety of Dynamic Positioning Operation on Mobile Offshore Drilling Units". Proceedings of the 23rd OMAE Conference, Vancouver, Canada, 2004.
172. Hermundstad, O.A. and Moan, T. "Numerical and Experimental Analysis of Bow Flare Slamming on a Ro-Ro Vessel in Oblique Waves". Proc. 25th Symposium on Naval Hydrodynamics, St. John's, Canada, 2004.
173. Hermundstad, O.A., Moan, T. and Mørch, H. J. "Motions and Slamming Loads on a Ro-Ro Ship". Proc. 9th International Symposium on Practical Design of Ships and Other Floating Structures – PRADS-2004, Luebeck-Travemuende, Germany, 2004, pp. 487-495.
174. Moan, T. "Safety of Offshore Structures" - Keppel lecture. National University of Singapore, 26 November, 2004. Report CORE.
175. Moan, T. "Safety of Floating Offshore Structures". PRADS Conference, Lübeck (Travemünde), 12-17 September, 2004.
176. Moan, T., Ayala Uruga, E. and Wang, X. "Reliability-Based Service Life Assessment of FPSO Structures". In Proc. of SNAME Maritime Technology Conference & Expo 2004, Washington DC, Sept. 29 – Oct. 1, 2004.
177. Verhoeven, H., Chen, H. and Moan, T. "Safety of Dynamic Positioning Operation on Mobile Offshore Drilling Units on the Norwegian Continental Shelf". Proceedings of Dynamic Positioning Conference and Marine Technology Society Symposium, September 28-30, 2004.
178. Wu, MK and Moan, T. "Direct Calculation of Design Wave Loads in a High Speed Pentamaran". 9th Symposium on Practical Design of Ships and Other Floating Structures (PRADS2004), Luebeck-Travemuende, Germany, 2004, pp. 679-688.
179. Ayala Uruga, E. and Moan, T. "Reliability-based assessment of welded joints using alternative fatigue failure functions". In Proceedings ICOSSAR 2005, G. Augusti, G.I. Schuëller, M. Ciampoli (eds., Millpress, Rotterdam, 2005, pp. 1071-1078.
180. Ayala Uruga, E. and Moan, T. "Time-variant reliability assessment of FPSO hull girder with long cracks". In Proceedings of OMAE2005, 24th International Conference on Offshore Mechanics and Arctic Engineering, June 12-17, 2005, Halkidiki, Greece, OMAE2005-67186.
181. Bin, Z. and Moan T. "Analysis of fatigue crack propagation in typical welded joints of FPSOs". Proceedings of the 24th Int. Conference on Offshore Mechanics and Arctic Engineering. June 12-17, 2005, Halkidiki, Greece, 2005, OMAE2005-67058.
182. Chen, H. and Moan, T. "DP incidents on mobile offshore drilling units on the Norwegian Continental Shelf". European Safety and Reliability Conference, Gdansk, Poland, 26-30 June 2005.
183. Chen, X.J., Moan, T., Fu, S.X. Cui, W.C. "Hydroelastic analysis of flexible floating structures in regular waves". In Proceeding of ICMEM 2005 (International Conference on Mechanical Engineering and Mechanics), Vol.2, October 26-28, 2005, Nanjing, China, pp. 973-977.
184. Gao, Zhen, Moan, T. and Heggelund, S.E. "Time variant reliability of mooring system considering corrosion deterioration". In Proceedings of OMAE2005, 24th International Conference on Offshore Mechanics and Arctic Engineering, June 12-17, 2005, Halkidiki, Greece, OMAE2005-67429.
185. Graczyk, M., Moan, T. and Rognebakke, O.F. "Probabilistic analysis of characteristic pressure for LNG tanks". In Proceedings of 24th International Conference on Offshore Mechanics and Arctic Engineering, June 12-17, 2005, Halkidiki, Greece. OMAE2005-67096
186. Moan, T. and Amdahl, J. "Development of accidental collapse limit state criteria for offshore structures". In Proceedings ICOSSAR 2005, G. Augusti, G.I. Schuëller, M. Ciampoli (eds.), Millpress, Rotterdam, 2005, pp. 3325-3334.
187. Moan, T. "Recent development of structural analysis and design procedures for ships with emphasis on FPSOs". TEAM Conference, National University of Singapore, Singapore 5-7 December. 2005.
188. Moan, T., Amlashi, H.K.K. and Dong, G. "Critical assessment of ultimate hull girder capacity of ships from a reliability analysis point of view". 11th International Maritime Association of the Mediterranean Congress (IMAM 2005). 26-30 September, Lisbon, Portugal.
189. Quek, S.T., Zheng, X.Y. and Moan, T. "Non-linear wave effects on distributions of wave elevation and Morison force". Proceedings of the 9th Int. Conference on Structural Safety and Reliability, Amsterdam, 2005.
190. Wang, C.M., Utsunomiya, T., Watanabe, E. and Moan, T. "Mega floating structures", Proceedings of the International Conference on Advances in Structural Dynamics and its Applications, 7-9 December 2005, Ghandi Institute of Technology and Management, Visakhapatnam, India.
191. Wu, M.K. and Moan, T. "Hydroelastic analysis of ship hull responses in severe seas with emphasis on the effect of hull flexibility and structural damping". International Conference on Computational



- Methods in Marine Engineering. ECCOMAS Thematic Conference MARINE 2005, June 27-29 Det Norske Veritas, Oslo.
192. Arswendy, A. and Moan, T. "Sloshing response of LNG tank". Paper No.OMAE 2006-92356, Proceedings 25th Int. Conference on Offshore Mechanics and Arctic Engineering, June 4-9, 2006, Hamburg, Germany.
 193. Beels, C., Troch, P., De Backer, G., De Rouck, Moan, T., Aarseth, L. and Falcão, A. A model to investigate interacting wave power devices. *Int. Conference on Ocean Energy, October, 2006, Bremerhafen.*
 194. Bin, Z. and Moan, T. "Mean stress effect on fatigue of welded joints in FPSO". Paper No.OMAE 2006-92056, Proceedings 25th Int. Conference on Offshore Mechanics and Arctic Engineering, June 4-9, 2006, Hamburg, Germany.
 195. Bjarte-Larsson, T. and Falnes, J. and Moan, T. "Comparison of results from time-domain simulations and model tests of a water-pumping wave-power unit". Paper No. 2006-JSC-269. Proceedings 16th Int. Offshore and Polar Engineering Conference & Exhibition, ISOPE, San Francisco, California, USA, May 28-June 2, 2006.
 196. Chen, H., Moan, T. and Verhoeven, H. "Critical barriers to prevent loss of position", ESREL2006, Lisbon.
 197. Chen, H., Moan, T. and Verhoeven, H. "Critical DGPS failure on the Norwegian Continental Shelf", ESREL2006, Lisbon.
 198. Dong, G. and Moan, T. "Prediction of ultimate behaviour of plate girders in transverse frames". Paper No. 2006-JSC-387. Proceedings 16th Int. Offshore and Polar Engineering Conference & Exhibition ISOPE, San Francisco, California, USA. May 28-June 2, 2006.
 199. Drummen, I., Storhaug, G., Moe, E. and Moan, T. Experimental and full-scale measurements of fatigue damage in a container vessel hull of newer design. *RINA Conference on Container Design and Operation of Ships, 22-23 November, 2006, London.*
 200. Fu, S., Moan, T., Chen, X. and Cui, W. "Hydroelastic analysis of flexible floating interconnected structures". 4th Int. Conference on Hydroelasticity in Marine Technology, Shanghai, 2006.
 201. Gao, Z. and Moan, T. "Wave induced fatigue damage of mooring chain under combined non-Gaussian low and wave frequency loads". Paper No. OMAE 2006-92389, Proceedings 25th Int. Conference on Offshore Mechanics and Arctic Engineering, June 4-9, 2006, Hamburg, Germany.
 202. Graczyk, M. Moan, T., Shu, Z. and Wu, M.K. "Estimation of extreme sloshing pressures and structural response in membrane LNG tanks", ICSOT 2006, Design, Construction and Operation on Natural Gas Carriers and Offshore Systems, RINA, 14-15 September 2006, Busan, Korea.
 203. Huang, W. and Moan, T. "Fatigue under the combined high and low frequency loads". Paper No.OMAE 2006-92247, Proceedings 25th Int. Conference on Offshore Mechanics and Arctic Engineering, June 4-9, 2006, Hamburg, Germany.
 204. Huang, W. and Moan, T. "Load combination factors suitable for semi-probabilistic design of floating production, storage and offloading vessels (FPSO)". Paper No.OMAE 2006-92330, Proceedings 25th Int. Conference on Offshore Mechanics and Arctic Engineering, June 4-9, 2006, Hamburg, Germany.
 205. Moan, T. Design of Offshore Structures and Ships for Damage Tolerance. *21st. SOBENA Conference, 2006, Rio de Janeiro.*
 206. Moan, T., Graczyk, M., Shu, Z. and Rognebakke, O.F. Recent developments of structural design of ships based on direct calculations- with emphasis on LNG Carriers. *Proc. Int. Conference on Ship and Shipping Research, NAV, 2006, Genova, Italy.*
 207. Moan, T., Graczyk, M., Shu, Z. and Wu, M.K. "Assessment of wave-induced response of LNG vessels, with emphasis on the containment structure", Keynote lecture, NAV 2006, Int. Conference on Ship and Shipping Research, Genova, June 21-23, 2006.
 208. Shu, Z. and Moan, T. "Effect of avoidance of heavy weather on the wave induced loads on ships". Paper No. OMAE 2006-92406. Proceedings 25th Int. Conference on Offshore Mechanics and Arctic Engineering, June 4-9, 2006, Hamburg, Germany.
 209. Storhaug, G. and Moan, T. "Experimental investigation of the effect of springing and whipping on fatigue for a container vessel hull". 4th Int. Conference on Hydroelasticity in Marine Technology, Shanghai, 2006.
 210. Taghipour, R., Fu, S. and Moan, T. "Validated two and three dimensional linear hydroelastic analysis using standard software". Paper No. 2006-JSC-478. Proceedings 16th Int. Offshore and Polar Engineering Conference & Exhibition ISOPE, San Francisco, California, USA. May 28-June 2, 2006.



211. Zheng, X. Y. and Moan, T. "Numerical simulation of non-Gaussian wave elevation and kinematics based on two-dimensional Fourier transform". Paper No. OMAE-92014. Proceedings 25th International Conference on Offshore Mechanics and Arctic Engineering June 4-9, 2006, Hamburg, Germany.
212. Gao, Z. and Moan, T. "Sensitivity study of extreme value and fatigue damage of line tension in mooring systems with one line failure under varying annual environmental conditions". *Proc. 17th International Offshore and Polar Eng., ISOPE, Lisbon, 2007*, pp. 3753-3759.
213. Li, L., Moan, T. and Bin, Z. "Residual stress shakedown in typical weld joints and its effect on fatigue of FPSOs". Paper No. OMAE2007-29285. *26th Int. OMAE Conference, San Diego, California, June 10-15, 2007*.
214. Lie, H., Gao, Z. and Moan, T. "Mooring line damping estimation by a simplified dynamic model". Paper No. OMAE2007-29155. *26th Int. OMAE Conference, San Diego, California, June 10-15, 2007*.
215. Moan, T. "Assessment of wave-induced load effects in LNG tanks- in reliability perspective". *International Conference on Methods in Marine Engineering, MARINE 2007, Barcelona, 2007*, 24-29.
216. Sauder, T. and Moan, T. "Experimental investigation of the hydrodynamic characteristics of a novel column design for semi-submersible platforms". *Proc. 17th International Offshore and Polar Eng., ISOPE, Lisbon, 2007*, pp. 132-137.
217. Storhaug, G. and Moan, T. "The effect of bow shape on the springing/whipping response of a large ocean-going vessel: investigated by an experimental method". Paper No. OMAE2007-29148. *26th Int. OMAE Conference, San Diego, California, June 10-15, 2007*.
218. Taghipour, R., Perez, T. and Moan, T. "Time domain hydroelastic analysis of a flexible marine structure using state-space models". Paper No. OMAE2007-29272. *26th Int. OMAE Conference, San Diego, California, June 10-15, 2007*.
219. Gao, Z. and Moan, T. "Fatigue damage under combined high and low frequency Gaussian load processes considering a two-slope SN curve". *Proc. of the 10th International Conference on Applications of Statistics and Probability in Civil Engineering, ICASP2007, Tokyo, July 31-August 3, 2007*.
220. Moan, T. and Ayala-Uraga, E. "Fatigue reliability-based assessment of welded joints applying consistent fracture mechanics formulations". *Proc. of the 10th International Conference on Applications of Statistics and Probability in Civil Engineering, ICASP2007, Tokyo, July 31-August 3, 2007*.
221. Zheng, X.Y. and Moan, T. "Frequency-domain analysis of nonlinear wave effects and inundation effects on offshore platform response". *Proc. of the 10th International Conference on Applications of Statistics and Probability in Civil Engineering, ICASP2007, Tokyo, July 31-August 3, 2007*.
222. Chen, H., Moan, T. and Vinnem, J. E. "Safety of shuttle tanker offshore loading operations with emphasis on the human barrier". *European Safety & Reliability Conference (ESREL2007)*, 2007, June 24-27, Stavanger, Norway.
223. Chen, Q. and Moan, T. "Ultimate strength of trapezoidal-profile stiffened aluminium panels subjected to transverse compression, considering HAZ effects". *PRADS 2007, 10th Int. Symposium on Practical Design of Ships and Other Floating Structures*, 2007, October 1-5, 2007, Houston, Texas.
224. Drummen, I. and Moan, T. "Experimental investigation of the application of response conditioned waves for long-term nonlinear analyses". *PRADS 2007, 10th Int. Symposium on Practical Design of Ships and Other Floating Structures*, 2007, October 1-5, 2007, Houston, Texas.
225. Drummen, I., Storhaug, G., Moe, E. and Moan, T. "Experimental and full-scale measurements of fatigue damage in a container vessel hull of newer design". *Int. Symposium on Ship Design & Construction, Bulk carriers, oil tankers and container ships. The Royal Institution of Naval Architects and The Shanghai Society of Naval Architects and Marine Engineer*, 2007, Shanghai, China.
226. Fukasawa, T., Kawabe, H. and Moan, T. "On extreme ship response in severe short-term sea state". *Advances in Marine Structures, Proc. of Marstruct 2007, The 1st. International Conference on Marine Structures, Glasgow 12-14 March 2007*, pp.33-40.
227. Graczyk, M. and Moan, T. "Assessment of sloshing pressure and response in LNG tanks". *Proc. International Conference on Violent Flows*, 20-22 Nov., 2007, Fukuoka, Japan.
228. Hals, J., Taghipour, R. and Moan, T. "Dynamics of a force-compensated two-body wave energy converter in heave with hydraulic power take-off subject to phase control". *Proc. of the 7th European Wave and Tidal Energy Conference (EWTEC)*, 2007, Porto, Portugal.
229. Kawabe, H. and Moan, T. "Efficient estimation method for design wave-induced load and consideration of the limited wave height effect". *PRADS 2007, 10th Int. Symposium on Practical Design of Ships and Other Floating Structures*, 2007, Houston, Texas.
230. Molinas, M., Skjervheim, O., Andreasen, P., Undeland, T., Hals, J., Moan, T. and Sørby, B. "Power electronics as grid interface for actively controlled wave energy converters". *International Conference on Clean Electrical Power (ICCEP)*, 2007, Capri, Italy.



231. Storhaug, G. and Moan, T. "Springing/whipping response of a large ocean-going vessel, investigated by an experimental method". *PRADS 2007, 10th Int. Symposium on Practical Design of Ships and Other Floating Structures*, 2007, October 1-5, 2007, Houston, Texas.
232. Ye, N. and Moan, T. "Improving fatigue life for aluminium cruciform joints by weld toe grinding". *PRADS 2007, 10th Int. Symposium on Practical Design of Ships and Other Floating Structures*, 2007, October 1-5, 2007, Houston, Texas.
233. Aarsæther, K. G. and Moan, T. "Autonomous Traffic Model for Ship Maneuvering Simulations Based on Historical Data". *Proceedings of the 7th conference on computer and IT applications in the maritime industries (COMPIT '08)*, pp. 372-383, 2008, 21-23 April - Liege, Belgium.
234. Chen, H. and Moan, T. "Safety of dynamic positioning operations for mobile offshore units in the North Sea". *Proceedings of the Deepwater Technology Symposium (DTec2008)*, 2008, 17-19 Nov. - Shanghai, China.
235. Chen, H. and Moan, T. "DP Safety for Offshore Drilling and Well Intervention Vessels". *Proceedings of SNAME Annual Meeting and Expo*, 2008, 15-17 Oct. - Houston, USA.
236. Chen, H. and Moan, T. "Safety of DP Drilling Operations in the South China Sea". *Proceedings of the ninth International Conference on Probabilistic Safety Assessment and Management (PSAM 9)*, 2008, 18-23 May - Hong Kong, China.
237. Chen, H. and Moan, T. "Human Element in the Safety Modeling of Offshore Marine Operations". *Proceedings of the Marine Operations Specialty Symposium (MOSS 2008)*, 2008, 5-7 March - Singapore.
238. Hals, J., Lopes, Miguel F. P., Moan, T., Gato, L. M. C. and Falcão, A. "Demonstration of a simple latching-control strategy for a wave-energy converter in irregular waves". *Proceedings of the 2nd International Conference on Ocean Energy (ICOE 2008)*, 2008, 15-17 Oct. - Brest, France.
239. Huang, X.P. and Moan, T. "Fatigue life prediction of welded steel structures using a unique crack growth rate curve method". *Proceedings of the International Conference Mesomechanics*, 2008, 28 Jan. - 1 Feb. - Cairo, Egypt.
240. Jia, H. and Moan, T. "Reliability Analysis of Oil Tankers with Collision Damage". *Proceedings of the ASME 27th International Conference on Offshore Mechanics and Arctic Engineering*, OMAE2008-57102, 2008, 15-20 June - Estoril, Portugal.
241. Kota, R. and Moan, T. "Stochastic Analysis of Vertical Wave Loads on Deck". *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering*, OMAE2008-57105, 2008, 15-20 June - Estoril, Portugal.
242. Lardier, J., Moan, T. and Gao, Z. "Fatigue reliability of catenary mooring lines under corrosion effect". *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering*, OMAE2008-57360, 2008, 15-20 June - Estoril, Portugal.
243. Sawamura, J., Riska, K. and Moan, T. "Finite Element Analysis of Fluid-Ice Interaction during Ice Bending". *Proceedings of the 19th IAHR International Symposium on Ice*, 2008, 6-11 July - Vancouver, Canada.
244. Schoen, M. P., Hals, J. and Moan, T. "Wave Prediction and Fuzzy Logic Control of Wave Energy". *Proceedings of the 16th Mediterranean Conference on Control and Automation*, 2008, 25-27 June - Ajaccio, France.
245. Schoen, Marco P., Hals, J. and Moan, T. "Robust Control of Heaving Wave Energy Devices in Irregular Waves". *Proceedings of the 16th Mediterranean Conference on Control and Automation*, pp. 779-784, 2008, 25-27 June - Ajaccio, France.
246. Shu, Z. and Moan, T. "Wave Pressure Distributions along the Midship Transverse Section of a VLCC". *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering*, OMAE2008-57649, 2008, 15-20 June - Estoril, Portugal.
247. Taghipour, R., Arswendy, A., Devergez, M. and Moan, T. "Structural analysis of a multi-body wave energy converter in the frequency domain by interfacing WAMIT and ABAQUS". *Proceedings of the 27th Conference on Offshore Mechanics and Arctic Engineering*, OMAE2008-57980, 2008, 15-20 June - Estoril, Portugal.
248. Moan, T. "Life-Cycle Assessment of Marine Civil Engineering Structures" Proc. IALCCE, 2008. Varenna, Lake Como. Proc. published by CRC Press, Taylor & Francis Group.
249. Taghipour, R. and Moan, T. "Efficient Frequency-Domain Analysis of Dynamic Response for the Multi-Body Wave Energy Converter in Multi-Directional Waves". *Proceedings of the 18th International Offshore and Polar Engineering Conference (ISOPE)*, 2008, 6-11 July - Vancouver, Canada.
250. Amlashi, H. K. K. and Moan, T. Prediction of ultimate global behaviour of bulk carriers under double bottom bending. ASRANet Colloquium, 2008, 25-27 June - Athens, Greece.



251. Aarsæther, K. G. and Moan, T. Computer Vision and Ship Traffic Analysis: Inferring Maneuver Patterns from the Automatic Identification System. 8th International Navigational Symposium on Marine Navigation and Safety of Sea Transportation (TRANS-NAV), 2009, 17-19 June - Gnydia, Croatia..
252. Chen, X.J., Moan, T. and Tang, X. F. Influence of Multidirectional Irregular Wave Sampling to Second-Order Hydroelastic Responses of VLFS. Proceedings of the 28th International Conference on Ocean, Offshore and Arctic Engineering (OMAE2009-79861), 31 May - 5 June 2009 - Honolulu (HA), USA.
253. Dong, G. and Moan, T. Shear Strength of Plate Girders in Ship Structures. OMAE2009, Proceedings of the 28th International Conference on Ocean, Offshore and Arctic Engineering. OMAE2009-79962, 2009, May 31-June 5 - Honolulu (HA), USA.
254. Gao, Z. and Moan, T. Accuracy of the narrow-band approximation of stationary wide-band Gaussian processes for extreme value and fatigue analysis. Proceedings of the 10th International Conference on Structural Safety and Reliability (ICOSSAR), pp. 997-1004, 2009, 13-17 Sept. - Osaka, Japan..
255. Gao, Z. and Moan, T. Mooring system analysis of multiple wave energy converters in a farm configuration. Proceedings of the 8th European Wave and tidal Energy Conference (EWTEC), 2009, 7-10 Sept - Uppsala, Sweden..
256. Graczyk, M. and Moan, T. Structural Response to Sloshing Excitation in Membrane LNG Tank. OMAE2009, Proceedings of the 28th International Conference on Ocean, Offshore and Arctic Engineering. OMAE2009-79722, 2009, May 31-June 5 - Honolulu (HA), USA.
257. Hermundstad, O. A. and Moan, T. Efficient Methods for Direct Calculation of Slamming Loads on Ships. SNAME Annual Meeting & Expo. 21-23 Oct. 2009. Providence (RI), USA.
258. Hermundstad, O. A. and Moan, T. Efficient calculation of bow flare slamming in irregular oblique seas. International Conference on Computational Methods in Marine Engineering (MARINE 2009), 15-17 June 2009. Trondheim - Norway
259. Hermundstad, O. A. and Moan, T. Practical calculation of slamming pressures in irregular oblique seas. 10th International Conference on Fast Sea Transportation (FAST), 5-8 Oct. 2009 - Athens, Greece.
260. Huang, W. and Moan, T. Load combination factors suitable for probabilistic and semi-probabilistic design of ocean-going ships Proceedings of the 10th International Conference on Structural Safety and Reliability, 13-17 Sept. 2009 - Osaka, Japan.
261. Iijima, K., Hermundstad, O. A., Zhu, S. J and Moan, T. Symmetric and Anti-symmetric Vibrations of a Hydroelastically Scaled Model 5th International Conference on Hydroelasticity in Marine Technology 2009 8-10 Sept. 2009, University of Southampton - UK.
262. Jia, H. and Moan, T. Probabilistic assessment of collision-induced ship hull failure Proceedings of the 10th International Conference on Structural Safety and Reliability, 13-17 Sept. 2009 - Osaka, Japan.
263. Karimirad, M. and Moan, T. Wave and Wind Induced Motion Response of Catenary Moored Spar Wind Turbine. Proceedings of the IIIrd International Conference on Computational Methods in Marine Engineering, 2009, 15-17 June - Trondheim, Norway.
264. Karimirad, M., Gao, Z. and Moan, T. Dynamic Motion Analysis of Catenary Moored Spar. European Offshore Wind Conference & Exhibition, 2009, 14-16 Sept. - Stockholm, Sweden.
265. Moan, T. and Amlashi H. Reliability-based calibration of design code for bulk carriers with combined loading Safety, Reliability and Risk of Structures, Infrastructures and Engineering Systems (ICOSSAR), 13-17 Sept. 2009 - Osaka, Japan.
266. Sawamura, J., Riska, K. A. and Moan, T. Numerical Simulation of Breaking Patterns in Level Ice at Ship's Bow Proceedings of the 19th International Offshore and Polar Engineering Conference (ISOPE), 21-26 June - Osaka, Japan
267. Shu, Z. and Moan, T. Assessment of the hull girder ultimate strength of a bulk carrier using nonlinear finite element analysis. Analysis and design of marine structures: proceedings of MARTSTRUCT 2009, the 2nd International Conference on Marine Structures, 2009, 16-18 March - Lisbon, Portugal.
268. Shu, Z. and Moan, T. 5B A study on the effect of heavy weather avoidance on the wave pressure distribution along the midship transverse section of a VLCC and a bulk carrier. Analysis and design of marine structures: proceedings of MARTSTRUCT 2009, the 2nd International Conference on Marine Structures, 2009, 16-18 March - Lisbon, Portugal.
269. Taghipour, R., Moan, T. and Arswendy, A. Comparative Study of Wave Load Effects for Two Wave Energy Converter Concepts. OMAE2009, Proceedings of the 28th International Conference on Ocean, Offshore and Arctic Engineering. OMAE2009-80243, 2009, May 31-June 5 - Honolulu (HA), USA.
270. Zheng, X. Y. and Moan, T. Statistical properties of third-order nonlinear random waves and waveinduced offshore structural responses. Proceedings of the 10th International Conference on Structural Safety and Reliability (ICOSSAR), 2009, 13-17 Sept. - Osaka, Japan.



271. Arswendy, A., Liasjø, O. and Moan, T. Comparative Study of FE Models of LNG Containment System No.96 under Static Loads. Proceedings of the 20th International Offshore and Polar Engineering Conference (ISOPE 2010). 20-26 June 2010 - Beijing, China.
272. Arswendy, A., Liasjø, O. and Moan, T. The Effect of Inner Steel Hull Flexibility on the Responses of the LNG Containment System No.96 under Static Loads. Proceedings of the 20th International Offshore and Polar Engineering Conference (ISOPE 2010). 20-26 June 2010 - Beijing, China.
273. Chen, H., and Moan, T. Probabilistic Evaluation of Collision Between DP Shuttle Tanker and Geostationary FPSO in Direct Offloading. Proceedings of the 29th International Conference on Ocean, Offshore and Arctic Engineering (OMAE2010-21185). 6-11 June, 2010 - Shanghai, China.
274. Chen, Q. and Moan, T. Material Softening Effect on Ultimate Strength of Stiffened Aluminum Panels. Proceedings of the 29th International Conference on Ocean, Offshore and Arctic Engineering (OMAE2010-20979). 6-11 June 2010 - Shanghai, China.
275. Dong W.B., Gao Z., Moan T., Fatigue Reliability Analysis of Jacket-Type Offshore Wind Turbine Considering Inspection and Repair. Proceedings of the European Wind Energy Conference (EWEC), National Renewable Energy Laboratory (NREL). 20-23 April 2010- Warsaw, Poland.
276. Gao, Z. and Moan, T. Long-Term Fatigue Analysis of Offshore Fixed Wind Turbines Based on Time-Domain Simulations. Proceedings of the 11th International Symposium on Practical Design of Ships and other Floating Structures (PRADS2010). 19-24 September 2010- Rio de Janeiro, Brazil. Vol.2: pp. 1473-1482. (ISBN: 978-85-285-0141-4).
277. Gao, Z., Saha, N., Moan, T. and Amdahl, J. Dynamic Analysis of Offshore Fixed Wind Turbines under Wind and Wave Loads Using Alternative Computer Codes. Proceedings of the 3rd Conference of Science of Making Torque from Wind. 28-30 June 2010 - Crete, Greece.
278. Gunnu, G.R.S., Moan, T. and Chen, H. Risk Influencing Factors Related to Capsizing of Anchor Handling Vessels in View of the Bourbon Dolphin Accident. Proceedings of the International Conference on Systems Engineering in Ship and Offshore design, Royal Institution of Naval Architects, 21-22 October 2010 - Bath, UK.
279. Jia, H. and Moan, T. Global Responses of Struck Ships in Collision with Emphasis on Hydrodynamic Effects. Proceedings of the 29th International Conference on Ocean, Offshore and Arctic Engineering (OMAE2010-20336). 6-11 June 2010 - Shanghai, China.
280. Karimirad, M. and Moan, T. Effect of Aerodynamic and Hydrodynamic Damping on Dynamic Response of a Spar Type Floating Wind Turbine. Proceedings of the European Wind Energy Conference (EWEC), National Renewable Energy Laboratory (NREL). 20-23 April 2010 - Warsaw, Poland.
281. Karimirad, M. and Moan, T. Extreme Structural Dynamic Response of a Spar-Type Wind Turbine. Proceedings of the 29th International Conference on Ocean, Offshore and Arctic Engineering (OMAE2010-20044), 6-11 June 2010 - Shanghai, China.
282. Karimirad, M. Gao, Z. and Moan, T. Offshore Code Comparison Collaboration within IEA Wind Task 23: Phase IV Results Regarding Floating Wind Turbine Modeling. Proceedings of the European Wind Energy Conference (EWEC), National Renewable Energy Laboratory (NREL). 20-23 April 2010 - Warsaw, Poland.
283. Natskâr, A. and Moan, T. An Experimental Investigation of Barge Roll in Severe Beam Seas Proceedings of the 11th International Symposium on Practical Design of Ships and other Floating Structures (PRADS2010). 19-24 September 2010- Rio de Janeiro, Brazil. Vol.1: pp.415-425. (ISBN: 978-85-285-0140-7).
284. Saha, N., Gao, Z., Moan, T. and Naess, A. Extreme Values Statistics of the Response of Offshore Fixed Wind Turbines. Proceedings of the 3rd Conference of Science of Making Torque from Wind. 28-30 June 2010 - Crete, Greece.
285. Shu, Z., and Moan, T. Reliability Analysis of Ultimate Strength of a Capesize Bulk Carrier in Hogging and Alternate Hold Loading Condition Proceedings of the 29th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2010-20334). 6-11 June, 2010 - Shanghai, China.
286. Shu, Z., and Moan, T. Ultimate Strength of a Capesize Bulk Carrier in Hogging and Alternate Hold Loading Condition. Proceedings of the 29th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2010-20620). 6-11 June, 2010. Shanghai, China.
287. Storhaug, G., Choi, B-K., Moan, T. and Hermundstad, O. Consequence of Whipping and Springing on Fatigue for a 8600TEU Container Vessel in Different Trades Based on Model Tests. Proceedings of, the 11th International Symposium on Practical Design of Ships and other Floating Structures (PRADS2010). 19-24 September 2010. Rio de Janeiro, Brazil. Vol.2: pp.1180-1189 (ISBN: 978-85-285-0141-4).



288. Su, B., Riska, K., and Moan, T. Numerical Simulation of Ship Turning in Level Ice. Proceedings of the 29th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2010-20110). 6-11 June, 2010 - Shanghai, China.
289. Sundar, V., Moan, T. and Hals, J. Conceptual Design of OWC Wave Energy Converters Combined With Breakwater Structures. Proceedings of the 29th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2010-20508). 6-11 June, 2010 - Shanghai, China.
290. Yang, L., and Moan, T. Cylinder Bore Wear Damage Analysis of a Heaving-Buoy Wave Energy Converter with Hydraulic Power Take-Off. Proceedings of the 29th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2010-20164). 6-11 June, 2010 - Shanghai, China.
291. Zheng, X. Y., and Moan, T. Freak Waves Within the Third Order Model. Proceedings of the 29th International Conference on Ocean, Offshore and Arctic Engineering (OMAE2010-20455). 6-11 June, 2010 - Shanghai, China.
292. Zhu, S., Hermundstad, O.A., Iijima, K., and Moan, T. Wave-Induced Load Effects of a Backbone Model under Oblique Seas in a Towing Tank. Proceedings of the 11th International Symposium on Practical Design of Ships and other Floating Structures (PRADS2010). 19-24 September, Rio de Janeiro, Brazil. Vol.1 pp. 241-249 (ISBN: 978-85-285-0140-7).
293. Babarit, A., Hals, J., Kurniawan, A., Moan, T. and Krokstad, J. Power Absorption Measures and Comparisons of Selected Wave Energy Converters (OMAE2011-49360). Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering. June 19-24, 2011 - Rotterdam, The Netherlands.
294. Chen, H., Moan, T., Lerstad, A. and Breivik, K. Analysis of Oil Spill Risk in DP Shuttle Tanker Direct Offloading Operations (OMAE2011-50344). Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering. June 19-24, 2011 - Rotterdam, The Netherlands.
295. De Vaal, J.B., Hansen, M.O.L. and Moan, T. Comparison between Actuator Disc and BEM Models for a Floating Wind Turbine Rotor in Periodic Surge Motion. Proceedings of the 7th EAWE PhD Seminar on Wind Energy in Europe. October 27-28, 2011 - Delft, The Netherlands.
296. Dong, W.B., Moan, T., and Gao, Z. Statistical Uncertainty Analysis in the Long-Term Distribution of Wind- and Wave- Induced Hot-Spot Stress for Fatigue Design of Jacket Wind Turbine Based on Time Domain Simulations (OMAE2011-49307). Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering. June 19-24, 2011 - Rotterdam, The Netherlands.
297. Gao, Z., Luan, C.Y., Moan, T., Skaare, B., Solberg, T. and Lygren, J.E. Comparative Study of Wind- and Wave-Induced Dynamic Responses of Three Floating Wind Turbines supported by Spar, Semi-Submersible and Tension-Leg Floaters. Proceedings of the 2011 International Conference on Wind Energy and Ocean Energy (ICOWEOE'11). October 31-November 2, 2011 - Beijing, China.
298. Jia, H. and Moan, T. Conditional Risk Assessment Considering Hull Girder Failure of Vessels with Collision-Induced Damage Amidships (OMAE2011-49467). Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering. June 19-24, 2011 - Rotterdam, The Netherlands.
299. Jia, H. and Moan, T. The Effect of Sloshing in Tanks on Motions and Hull Girder Responses of Damaged Vessels (OMAE2011-49468). Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering. June 19-24, 2011 - Rotterdam, The Netherlands.
300. Karimirad, M. and Moan, T. Ameliorating the Negative Damping in the Dynamic Responses of a Tension Leg Spar-Type Support Structure with a Downwind Turbine. Scientific proceedings of the European Wind Energy Conference (WEA-EWEC2011). March 14-17, 2011 - Brussels, Belgium.
301. Karimirad, M. and Moan, T. Tension Leg Spar-Type Offshore Wind Turbine with Upwind or Downwind Rotor Configuration. AWEA-WindPower2011 (American Wind Energy Association). May 22-25, 2011 - Anaheim (CA), USA.
302. Kurniawan, A., Hals, J. and Moan, T. Assessment of Time-Domain Models of Wave Energy Conversion Systems. Proceedings of the 9th European Wave and Tidal Energy Conference (EWTEC 2011). September 5-9, 2011 - Southampton, UK.
303. Kurniawan, A., Hals, J. and Moan, T. Modelling and Simulation of a Floating Oscillating Water Column (OMAE2011-49263). Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering. June 19-24, 2011 - Rotterdam, The Netherlands.
304. Kvittem, M.I., Moan, T., Gao, Z. and Luan, C. Short-Term Fatigue Analysis of Semi-Submersible Wind Turbine Tower (OMAE2011-50092). Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering. June 19-24, 2011 - Rotterdam, The Netherlands.
305. Muliawan, M.J., Gao, Z., Moan, T. and Babarit, A. Analysis of a Two-Body Floating Wave Energy Converter with Particular Focus on the Effects of Power Take Off and Mooring Systems on Energy



- Capture (OMAE2011-49135). Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering, June 19-24, 2011 - Rotterdam, The Netherlands.
306. Storhaug, G., Derbanne, Q., Choi, B.-K., Moan, T. and Hermundstad, O.A. Effect of Whipping on Fatigue and Extreme Loading of a 13000TEU Container Vessel in Bow Quartering Seas Based on Model Tests (OMAE2011-49370). Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering, June 19-24, 2011 - Rotterdam, The Netherlands.
307. Su, B., Riska, K. and Moan, T. Numerical Simulation of Ships Operating in Level Ice. Proceedings of the 21st International Conference on Port and Ocean Engineering under Arctic Conditions (POAC). July 10-14, 2011 - Montreal, Canada.
308. Yang, L. and Moan, T. Prediction of Long-Term Fatigue Damage of a Hydraulic Cylinder of a Wave Energy Converter Subjected to Internal Fluid Pressure Induced by Wave Loads. Proceedings of the 9th European Wave and Tidal Energy Conference (EWTEC 2011). September 5-9, 2011 - Southampton, UK.
309. Zhou, L., Su, B., Riska, K. and Moan, T. Numerical Simulation of Moored Ship in Level Ice (OMAE2011-49115). Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering, June 19-24, 2011 - Rotterdam, The Netherlands.
310. Karimirad, M. and Moan, T. Comparative Study of Spar-Type Wind Turbines in Deep and Moderate Water Depths. Proceedings of the 31st International Conference on Ocean, Offshore and Arctic Engineering (OMAE2012). 1-6 July 2012 - Rio de Janeiro, Brazil.
311. Kurniawan, A. and Moan, T. Characteristics of a Pitching Wave Absorber with Rotatable Flap. Proceedings of the Technoport RERC (Renewable Energy Research Conference) 2012. 16-18 April 2012 - Trondheim, Norway.
312. Kurniawan, A. and Moan, T. Multi-Objective Optimization of a Wave Energy Absorber Geometry. Proceedings of the 27th International Workshop on Water Waves and Floating Bodies (IWWWFB27). 22-25 April 2012 - Copenhagen, Denmark.
313. LaCava, W., Guo, Y., Xing, Y. and Moan, T. Determining Wind Turbine Gearbox Model Complexity Using Measurement Validation and Cost Comparison. Proceedings of EWEA 2012 Annual Event. 16-19 April 2012 - Copenhagen, Denmark.
314. Rasekhi Nejad, A. and Moan T. Effect of Geometrical Imperfections of Gears in Large Offshore Wind Turbine Gear Trains: 0.6–10 MW Case Studies. Proceedings of EWEA 2012 Annual Event. 16-19 April 2012 - Copenhagen, Denmark.
315. Xing, Y., Karimirad, M. and Moan, T. Effect of Spar-Type Floating Wind Turbine Nacelle Motion on Drivetrain Dynamics. Proceedings of EWEA 2012 Annual Event. 16-19 April 2012 - Copenhagen, Denmark.
316. Bachynski, E.E. and Moan, T. Linear and Nonlinear Analysis of Tension Leg Platform Wind Turbines. *Proceedings of the 22nd International Offshore and Polar Engineering Conference (ISOPE 2012)*. 17-22 June 2012 - Rhodes, Greece.
317. Gunnu, G.R.S. and Moan, T. Stability Assessment of Anchor Handling Vessel During Operation Considering Wind Loads and Wave Induced Roll Motions. *Proceedings of the 22nd International Offshore and Polar Engineering Conference (ISOPE 2012)*. 17-22 June 2012 - Rhodes, Greece.
318. Gunnu, G.R.S., Wu, X. and Moan, T. Anchor Handling Vessel Behaviour in Horizontal Plane in a Uniform Current Field During Operation. *Proceedings of the 2nd Marine Operations Specialty Symposium (MOSS 2012)*. 6-8 August 2012 - Singapore.
319. Jia, H., Moan, T. and Jensen, Ø. Coupled Hydrodynamic Analysis Between Gravity Cage and Well Boat in Operation. *Proceedings of the 22nd International Offshore and Polar Engineering Conference (ISOPE 2012)*. 17-22 June 2012 - Rhodes, Greece.
320. Jiang, Z., Karimirad, M. and Moan, T. Steady State Response of a Parked Spar-Type Wind Turbine Considering Blade Pitch Mechanism Fault. *Proceedings of the 22nd International Offshore and Polar Engineering Conference (ISOPE 2012)*. 17-22 June 2012 - Rhodes, Greece.
321. Karimirad, M. and Moan, T. Comparative Study of Spar-Type Wind Turbines in Deep and Moderate Water Depths (OMAE2012-83559). *Proceedings of the 31st International Conference on Ocean, Offshore and Arctic Engineering (OMAE2012)*. 1-6 July 2012 - Rio de Janeiro, Brazil.
322. Kota, R.S. and Moan, T. An Experimental Study of Wave Loads on Deck in Irregular Waves (OMAE2012-84000). *Proceedings of the 31st International Conference on Ocean, Offshore and Arctic Engineering (OMAE2012)*. 1-6 July 2012 - Rio de Janeiro, Brazil.
323. Kurniawan, A. and Moan, T. Multi-Objective Optimization of a Wave Energy Absorber Geometry. *Proceedings of the 27th International Workshop on Water Waves and Floating Bodies (IWWWFB27)*. 22-25 April 2012 - Copenhagen, Denmark.



324. Kurniawan, A., Pedersen, E. and Moan, T. Modelling of Wave Energy Converters Using Bond Graph. *Proceedings of the 10th International Conference on Bond Graph Modeling and Simulation (ICBGM 2012)*. 8-11 July 2012 - Genoa, Italy.
325. Kvittem, M.I. and Moan, T. Effect of Mooring Line Modelling on Motions and Structural Fatigue Damage for a Semisubmersible Wind Turbine. *Proceedings of the 22nd International Offshore and Polar Engineering Conference (ISOPE 2012)*. 17-22 June 2012 - Rhodes, Greece.
326. LaCava, W., Guo, Y., Xing, Y. and Moan, T. Determining Wind Turbine Gearbox Model Complexity Using Measurement Validation and Cost Comparison. *Proceedings of EWEA 2012 Annual Event*. 16-19 April 2012 - Copenhagen, Denmark
327. Manzanas, R., Moan, T., Hanssen, J.E., Pérez, G., Ingram, D., Lewis, T. and Kringelum, J.V. Combined Offshore Renewable Energy Converters: Progress of the EU Project "MARINA Platform". *Proceedings of the 4th International Conference on Ocean Energy (ICOE'12)*. 17-19 October 2012 - Dublin, Ireland.
328. Moan, T., Gao, Z., Karimirad, M., Bachynski, E.E., Etemaddar, M., Jiang, Z., Kvittem, M.I., Muliawan, M. and Xing, Y. Recent Developments of the Design and Analysis of Floating Wind Turbines. *Proceedings of the Developments in Fixed & Floating Offshore Structures Conference (ICSOT)*. 23-24 May 2012 - Busan, Korea.
329. Muliawan, M.J., Gao, Z. and Moan, T. Application of the Contour Line Method for Estimating Extreme Response in Mooring Lines of a Two-Body Floating Wave Energy Converter (OMAE2012-83370). *Proceedings of the 31st International Conference on Ocean, Offshore and Arctic Engineering (OMAE2012)*. 1-6 July 2012 - Rio de Janeiro, Brazil.
330. Muliawan, M.J., Karimirad, M., Moan, T. and Gao, Z. STC (Spar-Torus Combination): A Combined Spar-Type Floating Wind Turbine and Large Point Absorber Floating Wave Energy Converter - Promising and Challenging (OMAE2012-84272). *Proceedings of the 31st International Conference on Ocean, Offshore and Arctic Engineering (OMAE2012)*. 1-6 July 2012 - Rio de Janeiro, Brazil
331. Parmeggiani, S., Muliawan, M.J., Gao, Z., Moan, T. and Friis-Madsen, E. Comparison of Mooring Loads in Survivability Mode on the Wave Dragon Wave Energy Converter Obtained by a Numerical Model and Experimental Data (OMAE2012-83415). *Proceedings of the 31st International Conference on Ocean, Offshore and Arctic Engineering (OMAE2012)*. 1-6 July 2012 - Rio de Janeiro,
332. Rasekhi Nejad, A. and Moan, T. Effect of Geometrical Imperfections of Gears in Large Offshore Wind Turbine Gear Trains: 0.6–10 MW Case Studies. *Proceedings of EWEA 2012 Annual Event*. 16-19 April 2012 - Copenhagen, Denmark.
333. Rasekhi Nejad, A., Xing, Y. and Moan, T. Gear Train Internal Dynamics in Large Offshore Wind Turbines. *Proceedings of the ASME 2012 11th Biennial Conference On Engineering Systems Design and Analysis (ESDA2012)*. 2-4 July 2012 - Nantes, France
334. Rogne, Ø.Y., Ersdal, S. and Moan, T. Numerical and Experimental Investigation of a Novel Wave Energy Converter (OMAE2012-83609). *Proceedings of the 31st International Conference on Ocean, Offshore and Arctic Engineering (OMAE2012)*. 1-6 July 2012 - Rio de Janeiro, Brazil.
335. Su, B., Riska, K., Moan, T. and Berg, T.E. Full-scale and Model-scale Simulations of a Double Acting Intervention Vessel Operating in Level Ice. *Proceedings of the 21st IAHR International Symposium on Ice*. 11-15 June 2012 - Dalian, China.
336. Tan, X., Su, B., Riska, K. and Moan, T. The Effect of Heave, Pitch and Roll Motions to Ice Performance of Ships. *Proceedings of the 21st IAHR International Symposium on Ice*. 11-15 June 2012 - Dalian, China.
337. Xing, Y., Karimirad, M. and Moan, T. Effect of Spar-Type Floating Wind Turbine Nacelle Motion on Drivetrain Dynamics. *Proceedings of EWEA 2012 Annual Event*. 16-19 April 2012 - Copenhagen, Denmark.
338. Zhou, L., Riska, K.A. and Moan, T. Station Keeping Capacity of a Moored Structure with Heading Control in Level Ice. *Proceedings of the 21st IAHR International Symposium on Ice*. 11-15 June 2012 - Dalian, China.
339. Zhu, S. and Moan, T. A Comparative Study of the Influence of Bow Shape on Hull Girder Vibrations Through Two Backbone Models. *Proceedings of the 6th International Conference on Hydroelasticity in Marine Technology (Hydroelasticity 2012)*. 19-21 September 2012 - Tokyo, Japan.
340. Bachynski, E.E. and Moan, T. Hydrodynamic Modeling of Tension Leg Platform Wind Turbines (OMAE2013-10120). *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE2013)*. 9-14 June 2013 - Nantes, France.
341. Bachynski, E.E. and Moan, T. Point Absorber Design for a Combined Wind and Wave Energy Converter on a Tension-Leg Support Structure (OMAE2013-10429). *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE2013)*. 9-14 June 2013 - Nantes, France.



342. Dong, W., Moan, T. and Gao, Z. Reliability-based gear contact fatigue analysis for wind turbines under stochastic dynamic conditions. *Proceedings of the 11th International Conference on Structural Safety & Reliability (ICOSSAR2013)*. 16-20 June 2013 – New York, USA.
343. Etemaddar, M., Gao, Z. and Moan, T. Structural Load Analysis of a Wind Turbine Under Pitch Actuator and Controller Faults. *Proceedings of the Conference* 9-11 October 2012 - Oldenburg Germany.
344. Jiang, Z., Moan, T., Gao, Z. and Karimirad, M. Effect of Shut-Down Strategies on the Dynamic Responses of a Spar-Type Floating Wind Turbine (OMAE2013-10214). *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE2013)*. 9-14 June 2013 - Nantes, France.
345. Jiang, Z., Xing, Y., Dong, W., Moan, T. and Gao, Z. Long-Term Probability Distribution of Wind Turbine Planetary Bearing Loads. *Presentation at AWEA Windpower 2013 Conference & Exhibition*. 5-8 May 2013 - Chicago (IL), USA.
346. Li, L., Gao, Z. and Moan, T. Joint Environmental Data at Five European Offshore Sites for Design of Combined Wind and Wave Energy Devices (OMAE2013-10156). *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE2013)*. 9-14 June 2013 - Nantes, France.
347. Li, L., Gao, Z. and Moan, T. Numerical Simulations for Installation of Offshore Wind Turbine Monopiles Using Floating Vessels (OMAE2013-11200). *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE2013)*. 9-14 June 2013 - Nantes, France
348. Li, Q., Moan, T. and Gao, Z. Extreme Response Analysis for a Jacket-type Offshore Wind Turbine using Environmental Contour Method. *Proceedings of the 11th International Conference on Structural Safety & Reliability (ICOSSAR2013)*. 16-20 June 2013 – New York, USA.
349. Luan, C., Gao, Z. and Moan, T. Modelling and Analysis of a Semi-Submersible Wind Turbine with a Central Tower with Emphasis on the Brace System (OMAE2013-10408). *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE2013)*. 9-14 June 2013 - Nantes, France.
350. Tan, X., Riska, K. and Moan, T. Effect of Ship Speed on Ship's Ice Resistance with Ship's Vertical Motions Included. *Proceedings of the PRADS2013*. 20-25 October, 2013 CECO, Changwon City, Korea.
351. Wang, K., Moan, T. and Hansen, M.O.L. A Method for Modeling of Floating Vertical Axis Wind Turbine (OMAE2013-10289). *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE2013)*. 9-14 June 2013 - Nantes, France.
352. Wu, X., Longva, V., Sævik, S. and Moan, T. Simulation of Hooking Event in Fish Trawling Operation (OMAE2013-10490). *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE2013)*. 9-14 June 2013 - Nantes, France.
353. Xing, Y., Guo, Y., Keller, J. and Moan, T. Model Fidelity Study of Dynamic Transient Loads in a Wind Turbine Gearbox. *Presentation at AWEA Windpower 2013 Conference & Exhibition*. 5-8 May 2013 - Chicago (IL), USA.
354. Zurkinden, A., Gao, Z., Damkilde, L. and Moan, T. Structural Modeling and Analysis of a Wave Energy Converter Applying Dynamical Substructuring Method (OMAE2013-10854). *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE2013)*. 9-14 June 2013 - Nantes, France.
355. Zurkinden, A., Lambertsen, S.H., Damkilde, L., Gao, Z. and Moan, T. Fatigue Analysis of a Wave Energy Converter Taking into Account Different Control Strategies (OMAE2013-10864). *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE2013)*. 9-14 June 2013 - Nantes, France.

356.

Keynote Lectures

1. "On the Nature of Spatial Finite Element Approximations in Structural Mechanics", Keynote Lecture, Third MAFELAP Conf., Brunei University, 1978, *The Mathematics of Finite Elements and Applications*, Academic Press, 1979.
2. "The Alexander L. Kielland Accident", First Wallace Lecture, Dep. of Ocean Engng., Massachusetts Institute of Technology, Cambridge, Report MITSC 81-8, Sea Grant College Program, June 1981.
3. "Safety of Offshore Structures", Keynote Lecture, Fourth ICASP Conference, University of Firenze, June 1983.
4. "Reliability and Risk Analysis for Design and Operations Planning for Offshore Structures", Keynote lecture, ICOSSAR, Innsbruck, Aug. 9.-13. 1993.



5. ISOPE, Honolulu, 1997;
6. "Dynamics of Marine Civil Engineering Structures", EURO DYN '99, Prague, A.A. Balkema, Rotterdam, 1999.;
7. "Risk-based Design and Operations Planning of Offshore Structures", Keynote lecture, 19th OMAE Conference, New Orleans, February 14-17, 2000.
8. "TOWARDS STRUCTURAL DESIGN OF HIGH SPEED CRAFT based on DIRECT CALCULATIONS", FAST, Ischia (Napoli), 2003;
9. Keppel lecture, National University of Singapore, 2003;
10. "Safety of Floating Offshore Structures", PRADS, Lübeck-Travemünde, 2004;
11. Keppel Lecture, National University of Singapore, 2004;
12. "Life Cycle Management of Fatigue Reliability of Offshore Structures", Conf. on Structural Endurance and Safety, Technical University of Denmark, 2004.
13. "Safety Management of Offshore Structures", ASME J.W. Rice Lecture, OMAE Conference, Vancouver, 2004.
14. MARINE, Oslo, 2005;
15. "Recent development of structural analysis and design procedures for ships with emphasis on FPSOs". TEAM Conference, National University of Singapore, Singapore 5-7 December. 2005
16. "Recent Developments of Analysis and Design Procedures for Vessels for Production, Storage or Transport of Oil and Gas", Keppel Lecture, National University of Singapore 2005;
17. "Fatigue Reliability of Marine Structures – from Alexander Kielland Accident to Life Cycle Assessment", ISOPE Award Lecture, ISOPE Conference, San Francisco, 2006
18. "RECENT DEVELOPMENTS OF STRUCTURAL DESIGN OF SHIPS BASED ON DIRECT CALCULATIONS - WITH EMPHASIS ON LNG CARRIERS", NAV 2006, Genova;
19. ASRA Net 2006, Glasgow;
20. "Design of Offshore Structures and Ships for Damage Tolerance" SOBENA Conference, Rio de Janeiro, 2006.
21. Marine 2007, Barcelona;
22. "Life-Cycle Assessment of Marine Civil Engineering Structures", IACCLE 2008, Varenna.
23. Doss2009, Harbin Engineering University
24. "Reliability-based Life-Cycle Assessment of Cracks in Ocean Structures", ICOSAR2009, Osaka
25. "Marine Structures and Operations for a Future Safe and Sustainable Use of the Oceans". Proceedings of the 11th International Symposium on Practical Design of Ships and other Floating Structures (PRADS2010). 19-24 September, 2010- Rio de Janeiro, Brazil. Vol.2: pp. 1593-1626 (ISBN: 978-85-285-0141-4).
26. "Research and Development of Facilities for Marine Renewable Energy"; with Emphasis on Wind Energy. *Proceedings of the International Maritime-Port Technology and Development Conference (MTEC 2011)*. April 13-15, 2011 - Singapore, Singapore.
27. "Renewable Offshore Energy, with Emphasis on Wind Energy - Opportunities and Challenges". Peachman Lecture at the University of Michigan. 11 April 2012 - Ann Arbor, USA.
28. "Experiences with Design and Operation of Fixed Steel Structures in the Oil and Gas Sector". Proceedings of RAVE International Conference. 8-10 May 2012 - Bremerhaven, Germany.
29. "Stochastic Dynamic Analysis of Offshore Wind Turbines in a Reliability Perspective", Keynote lecture, AsraNet conference, London, 2-4 July, 2012.
30. "Safety of Facilities and Operations in the Offshore Oil and Gas Energy Sector", LRET Distinguished Lecture, U. Aberdeen, 2012
- 31.

Lecture series (courses)

1. Moan, T.: "Overview of Offshore Steel Structures - Functional and Safety Requirements", WEGEMT Course: Advanced Aspects of Offshore Engineering, Part I, Aachen, March 1979.
2. Moan, T.: "Deterministic and Stochastic Dynamic Analysis of Offshore Structures", WEGEMT Course: Advanced Aspects of Offshore Engineering, PART II, Aachen, March 1979.
3. Moan, T.: "Accidental Loads", in NIF Course on Loads and Safety of Offshore Structures, Trondheim, Jan. 1985.

5.2. Contract Research and Development Reports (Technical reports)



1. Moan, T.: "Finite Element Analysis of St. Venant Torsion". Report No. 71-1, Division of Structural Mechanics, NTH, 1971.
2. Moan, T.: "Design of a Lifting Platform", (in Norwegian) Rapport SK/R19, Div. of Ship Structures, NTH, 1973.
3. Moan, T. and Giske, K.: "WACUFO - Automated Calculation of Wave- and Current Forces on Three-dimensional Structures Composed of Cone Members", User's manual SK/R19, Division of Ships Structures, NTH, August 1973.
4. Moan, T., Nordsve, N.T. and Kjærnsli, D.: "Design of a Lifeboat made alternatively of Aluminium, Steel or GRP", Rapport SK/R29, Div. of Ship Structures, NTH, Sept. 1974.
5. Moan, T. and Sørensen, S.I.: "Feasibility Study of Column Deck Connection in the CONDEEP Platform proposed to Shell/Esso for the Brent Field", Report STF71 F74002, Division of Structural Engineering, SINTEF, NTH, 1974.
6. Moan, T. and Aasjord, H.: "Further Studies on the Design of Deck-Column Connections in Gravity-type Platforms"; Report STF71 F74007, Division of Structural Engineering, SINTEF, NTH, 1974.
7. Moan, T., Nordsve, N.T., Sørensen, S.I. and Evensen, K.: "Stress Analysis of Joints in Aker's H3/H4 Platform", Report no. 26/27, Division of Ship Structures, NTH, 1974.
8. Moan, T.: "Structural Analysis with the FEM - Practical Assessment of Uncertainties", Seminar at A/S Computas/Det Norske Veritas, Oslo, November 1974.
9. Søreide, T. and Moan, T.: "Analysis of Stiffened Plates considering geometric and material non-linear Behaviour", Meddelelse. no. 31, Division of Ship Structures, NTH, April 1975.
10. Moan, T., Carlsen, C.A., Lassen, T. and Søreide, T.H.: "Experimental Investigation of Stiffened and Unstiffened Circular Bulkheads Laterally Loaded to Ultimate Failure", Meddelelse no. 34, Division of Ship Structures, NTH, June 1975.
11. Moan, T. and Smith, E.: "A Structural Analysis of the Upper Part of the Condeep Platform", Report STF71 F75001, Division of Structural Engineering, SINTEF, NTH, 1975.
12. Moan, T., Smith, E. and Syvertsen, K.: "Analysis of Alternative Designs of the Deck-Column Connection in a Condeep Platform", Report STF71 F75005, Division of Structural Engineering, SINTEF, NTH, 1975.
13. Moan, T. and Smith, E.: "A Structural Analysis of the Deck-Column Connection for Shaft no. 1 in the Condeep-Platform proposed for Shell-Brent D", Report F75010, Division of Structural Engineering, SINTEF, NTH, 1975.
14. Moan, T. and Brakestad, H.: "Pre-design of a Pipelaying Semi-submersible Platform", (in Norwegian) Report SK/R33, Div. of Ship Structures, NTH, 1975.
15. Holthe, K. and Moan, T.: "Strength Analysis of Bulkhead L300 of Condeep Deck in towing Condition from Vindholmen to Stavanger", Report STF71 F75006, Division of Structural Engineering, SINTEF, NTH, 1975.
16. Moan, T., Solland, G. and Strømhylden, .A.: "Strength Design of an Aluminium Drill Tower, (in Norwegian) Report SK/R30, Div. of Ship Structures, NTH, 1975.
17. Haver, S., Moan, T. and Vinje, T.: "RESP - A Computer Program for Stochastic Dynamic Response Analysis of Bottom Supported Platforms", User's Manual, SK/P26, Division of Ship Structures, NTH, 1975.
18. Moan, T., Syvertsen, K. and Haver, S.: "Stochastic Dynamic Response Analysis of Gravity Platforms", Meddelelse no. 33, Division of Ship Structures, NTH, 1976.
19. Berge, S. and Moan, T.: "Experimental and Analytical Stress Analysis of a Column-pontoon Connection of a Semi-Submersible Platform", Report, Division of Ship Structures, NTH, January 1977.
20. Moan, T.: "Risk Assessment of Mobile Rig Operations", Report SK/R46, Division of Marine Structures, NTH, 1979.
21. Engesvik, K. and Moan, T.: "Reliability Format", SINTEF Report STF88 F82035, Trondheim, 1981.
22. Berge, S., Moan, T., Remseth, S., Syvertsen, K.: "Evaluation of Fatigue Design Procedures and Recommendations for Future Research and Computer Program Development", SINTEF Report STF 88 F82036, 1982.
23. Fylling, I.J., Moan, T., Huse, E. and Otterå, G.O.: "Floating Support System", DEEWAP-Deep Water Production Project, Report PR 22.1334.001083, NSFI,
24. NTNf report, November 1983.
25. Moan, T.: "Fatigue Design Review of the Semi-submersible "Dyvi Stena"", Report No. SK/R81, Div. of Marine Structures, NTH, 1984.
26. Moan, T. et al.: "TLP Design criteria", SINTEF Report STF88 F84049, 1984-11-09.



27. Brevig, P., Moan, T. and Soma, H.: "Notes on Mobile Platform Stability", Norwegian Hydrodynamic Laboratory, Report No. 184492, Trondheim 1984.
28. Moan, T. (medforf.): "Programtvalg for sikkerhetsforskning - sluttrapport for mandatperioden", SINTEF rapport STF18 F85003, 1985-01-31.
29. Moan, T.: "Risk Assessment of Buoyancy Loss. A pre-project report", Div. of Marine Structures, Report MK/R 85, March 1985.
30. Moan, T.: "Criteria for the Structural Design of the PTS "Petrojarl"", SINTEF Report STF 85050, Sept. 2, 1985.
31. Moan, T. at al.: "Collapse and Fatigue Strength Criteria of the PTS "Petrojarl", SINTEF Report STF71 F86019, April 1, 1986.
32. Moan, T. and Olufsen, A.: "Code Calibration of Offshore Structures", SINTEF Report STF71 A86076, SINTEF, December 30, 1986.
33. Moan, T.: "Review of the Design Basis for the Snorre-TLP", SINTEF Report STF71 F86075, January 28, 1987.
34. Moan, T. and Bjørshol, S.: "Experimental Investigation of the Collapse Behaviour of Model Tethers in Air," Report MK/R96, 1987. Div. of Marine Structures, NTH.
35. Moan, T. and Webster, W.C.: "A Study on the Collapse of Tethers for a Tension Leg Platform", Report to the Snorre Project team, Oslo, Norway, 1987-08-14.
36. Moan, T.: "Fatigue Design Criteria for Ships", Report MK/R 97, Div. of Marine Structures, NTH.
37. Guedes Soares, C., Moan, T. et al.: "Model Uncertainty in Wave Induced Bending Moments for Fatigue Design of Ship Structures", Report MK/R 99, Div. of Marine Structures, NTH, 1987.
38. Moan, T. and Wu, Yu-lin: "Calibration of Safety Coefficients for ULS Design Check of Submerged, Buoyant Bridges", Report MK/R 100, Div. of Marine Structures, NTH, 1988.
39. Moan, T.: "Conceptual Evaluation of Production Ships", Report MK/R 103, Div. of Marine Structures, NTH, 1988.
40. Moan, T. and Jiao, G.: "Characteristic Stillwater Load Effects for Production Ships", MK/R 104, Div. of Marine Structures, NTH, 1988.
41. Jiao, G. and Moan, T.: Probabilistic analysis of fatigue due to Gaussian load processes, Report MK/R 105/88. Div. of Marine Structures, NTH, 1988.
42. Moan, T., Jiao, G.: "Methods of Reliability and Variable Model Updating through Inspections", MK/R 108, Div. of Marine Structures, NTH, 1989.
43. Marley, M., Moan, T. and Jiao, G.: "Probabilistic Risk Analysis of TLP Tether Fracture", MK/R 109, Div. of Marine Structures, NTH, 1989.
44. Moan, T. and Jiao, G.: Probabilistic code calibration of design criteria for marine risers, Report MK/R 111/89, Div. of Marine Structures, NTH. 1989.
45. Moan, T.: "The Inherent Safety of Structures designed according to the NPD Regulations", SINTEF Report STF 71 F88043, 1988-12-28.
46. Olufsen, A. and Moan, T.: "Reliability Analysis of a Fixed Jacket Platform - Ultimate Limit state", SINTEF Report STF71 A89034.
47. Moan, T. et al.: "TLP Structural Verification Design Criteria/Premises", SINTEF Report STF 71 F89043, Trondheim, June 1989.
48. Moan, T.: "Ships Impact Loads on Bridge Piers" (in Norwegian) SINTEF Report STF71 F90003, Trondheim, January 1990.
49. Moan, T., Holand, I. and Fjeld, S., "Safety Evaluation of Submerged, Buoyant Bridges", Norwegian Road Administration, July 1990.
50. Fagerheim, G., Moan, T. and Taby, J.: "Experimental Determination of the Ultimate Strength of GRP/PVC Sandwich T-joints, Report MK/R 112, Report in NTNF project on High Speed Vehicles, Div. of Marine Structures, NTH, 1990.
51. Høyning, B. and Moan, T.: "Finite Element Analysis of Wide-flanged Sandwich T-beams", Report MK/R 116, Div. of Marine Structures, NTH, Oct. 1990.
52. Høyning, B. and Moan, T.: "Comparison of Measured and Calculated Behaviour of Wide-flanged Sandwich T-beams", Report MK/R 118, Div. of Marine Structures, NTH, Nov., 1990.
53. Jiao, G., Leira, B.J. and Moan, T.: "Reliability Analysis and Design Criteria for Flexible Pipes", SINTEF REPORT STF71 F90013, 1990.
54. Moan, T. og Torvanger, Ø., "Bolteforbindelser i glassfiberarmertlaminat. Beregning av statisk styrke", Report MK/R 116, Div. Marine Structures, NTH, 1990.
55. Moan, T., Dugstad, G. and Wu, Y.-L.: "Further Studies on Probabilistic Calibration of ULS Criteria for Marine Risers", MK/R 115, Div. of Marine Structures, NTH, January 1991.



56. Bech, S.M. and Moan, T.: "Stress-Strain Characteristics of PVC Core Materials in Compression", Report MK/R 120, Report in NTNf project on High Speed Vehicles, Div. of Marine Structures, NTH, March 1991.
57. Moan, T. and Høyning B.: "Effective Breadth in Wide flanged Composite Sandwich T-beams". MK/R 121. Div. of Marine Structures, NTH. 1991.
58. Vrouwenvelder, A., Ligteringen H. and Moan, T.: "Reliability Analysis for Offshore Structures", Report, Engineering Committee on Oceanic Resources, London, May 1991.
59. Skallerud, B., Moan, T. and Eide O.I.: "Fatigue Assessment Procedures for Production Ships", SINTEF report STF71 F91027, Sept. 23 1991.
60. Moan, T. et al.: "Sleipner A Loss. Failure Probabilities, SINTEF report STF65 F91053, Dec. 3 1991.
61. Skjåstad, O., Moan, T., Aarsnes, J.V. and Kauzyski, W.: "Prediction of Wave induced Vertical Sectional Forces of Production ships", SINTEF Report STF70 F92064, 1992-02-12
62. Jiao, G., Sothberg, T. and Moan, T.: "Reliability-based Design for Submarine Pipelines on Very Uneven Seabeds", SINTEF Report STF70 F92147, January 1992
63. Moan, T., and Vinnem, J.E.: "Design Accidental Loads for Structural Members", SikteC report, ST-92-CR-004-03, March 1992.
64. Amdahl, J., Eberg, E., and Moan, T. (1992): "Reassessment of Marine Structures: Elastoplastic-utilization - Safety requirements." Report STF70 F98148, SINTEF Structures and Concrete, Trondheim, Norway.
65. Hermundstad, O.A., McGeorge, D. og Moan T., "Deformasjons- og spenningsanalyse av sandwich luftpute katamaran ved bruk av elementmetoden" Report MK/R 124, Div. of Marine Structures, NTH, 1992.
66. Estefen, S.F., Sævik, S. and Moan, T. "Limit States for Tendon and Production Riser Bodies. Review of existing design equations for tubulars under tension, bending and pressure loads". STF70 F93068, April 1993.
67. Estefen, S.F. and Moan, T.: "Limit States for Tendon and Production Riser Bodies. Experimental Data Basis." STF70 F93069, April 1993.
68. Bai, Y. Igland, R. and Moan, T.: "Limit States for Tendon and Production Riser Bodies. Numerical Data Basis." STF70 F93070, April 1993.
69. Moan, T., Estefen, S. and Sævik, S.: "Limit States for Tendon and Production Riser Bodies. Selection and Implementation of Limit States as Failure Functions and Design Equations." STF70 F93071, April 1993.
70. Moan, T.: "Structural Concept for Large High Speed Catamaran", Report MK/R 127/94, Dept. of Marine Structures, NTH, 1994.
71. Moan, T. and Jiao, G.: "Target Pipeline
72. Moan, T.: "Target Safety Level for Reassessment of North Sea Offshore Platforms", SINTEF Report STF70F95201, Trondheim, 12.01.95.
73. Moan, T. and Holand, I.: "Review of the Design Guidelines for Submerged Tunnels for the Messina Strait Crossing", SINTEF Report STF70F95202, Trondheim, 16.01.95.
74. Moan, T. "Safety Levels Across Different Types of Structural Forms and Materials, Implicit in Codes for Offshore Structures", SINTEF Report STF70A95210, Trondheim, 11.04.1995.
75. Berge, S., Jiao, G. and Moan, T.: "Review of Inspection Plan for the Tethers of the Heidrun TLP", SINTEF Report STF70F95216, Trondheim, 07.08.1995.
76. Faltinsen, O.M., Hansvold, C., Landet, E., Moan, T., Remseth, S. og Søreide T.H., "Rørbru over Høgsfjorden. Vurdering av tidligere undersøkelser innen dynamisk lastvirkning", Reinertsen Engineering, Trondheim, Juli 1996
77. Amdahl, J. og Moan, T. "Vurdering av knekking i STL bøye", SINTEF rapport STF 22 F96707, mars 1996 Trondheim
78. Holmås, T., Eide, O.I. and Moan, T. "Styrkeegenskaper av Aquatex 187 duk-sammenføyning", SINTEF rapport STF22, F96725, Trondheim august 1996.
79. Moan, T. and Amdahl, J., "Rasmussen FPSO. Progressive Collapse Limit State Checks", Report No. ST-96-CR-043-00, Dovre Safetec, November 1996.
80. Jiao, G., Mørk, K.J., Bruschi, R., Sothberg, T., Moan, T. et al, "Reliability-Based Design Handbook: Offshore Pipelines", Submarine Pipelines SUPERB project. SINTEF, SNAMPROGETTI, DET NORSKE VERITAS, Report STF22 F96742, SINTEF, Trondheim, December 1996.
81. Moan, T., "Stedlige miljøforhold for Høgsfjord rørbru", Reinertsen Engineering Trondheim, juli 1997.
82. Moan, T., Tveiten, B.W., "The Effect of Toe Grinding on Fatigue of Aluminium Weldments, MK/R 132/98 , Trondheim, April 1998.



83. Moan, T. and Guttormsen, V.J., "Deformations and Residual Stresses caused by Fabrication of Aluminium Structures", Trondheim, April 1998.
84. Faltinsen, O.M., Moan, T. and Søreide, T.H., "Composite Drilling Riser Joint. Evaluation of Impact Energy", Reinertsen Engineering, Trondheim, July 1, 1998.
85. Guttormsen, V.J. and Moan, T., "Deformations and Residual Stresses caused by Fabrication of Aluminium Structures", Report MK/R 133, Dept. of Marine Structures, NTNU, 1998.
86. Kristensen, O.H. Holt, Witsøe, S.A. and Moan, T., "Ultimate strength of aluminium plates", Report MK/R 134/Rev. 1, November 1998.
87. Tveiten, B.W., Moan, T. and Bjørnevik, R., "Fatigue Strength of an Aluminium Box Stiffener/Transverse Plate Structure, Report MK/R-135. Dept. of Marine Structures, NTNU, February 1999.
88. Calonijs, O., Hiroko Kyuba and Moan, T., "Deformations of Aluminium Plates with Fillet Welded Stiffeners. Part 1: In-plane measurements", Report MK/R-137. Dept. of Marine Structures, NTNU, October 1999.
89. Calonijs, O., Hiroko Kyuba and Moan, T., "Deformations of Aluminium Plates with Fillet Welded Stiffeners. Part 2: 3D-coordinate measurements". Report MK/R-138. Dept. of Marine Structures, NTNU, October 1999.
90. Moan, T., Kristensen, O. H. H. and Zha, Yufeng, "Ultimate Strength of Aluminium Panel Structures", MK/R-140. Dept. of Marine Structures, NTNU, November 1999.
91. Zha, Yufeng, Moan, T. and Hanken, E., "Torsional Buckling Tests of Flat Bar Stiffeners and Aluminium Stiffened Panels", MK/R-141. Dept. of Marine Structures, NTNU, 1999.
92. Zha, Yufeng, Moan, T. and Hanken, E., "Torsional Buckling Tests of Flat Bar Stiffeners in Aluminium Stiffened Panels", MK/R-142. Dept. of Marine Structures, NTNU, 1999.
93. Ye, Naiquan and Moan, T., "Fatigue Analysis of Welded Joints in Aluminium Box Stiffener", MK/R-143. Dept. of Marine Structures, NTNU, 1999.
94. Dahl, K.O., Fjeld, S., Furre, K., Jakobsen, B., Liestøl, G., Moan, T., Rasmussen, N.S. and Østlid H., "Anbefaling om valg av tunnelloesning i Bjørnvika. E18 mellom Festningstunnelen og Ekeberg tunnelen", Statens Vegvesen, Oslo, 02.02.2000.
95. Moan, T., Økland, O.D. and Johansen, A., "Structural Assessment of MS Sleipner", SINTEF Report 700080.01 August 28 2000.
96. Ye, Naiquan and Moan, T., "Fatigue analysis of welded joints in aluminium box stiffeners", MK/R 143, Dept. of Marine Structures, NTNU, 2000.
97. Moan, T. and Amdahl, J. "Risk Analysis of FPSO, with particular emphasis in collision risk", Report 2001-RD12, American Bureau of Shipping, Houston, 2001.
98. Zhang, Bin, Kristensen, A., Moan, T. and Amdahl, J., "Ultimate Strength Analysis of Curved Bottom Panels of Inland Waterway Vessels", MK/R 150, 2001. Dept. of Marine Structures, NTNU, Trondheim.
99. Rognebakke, O.F., Faltinsen, O.M. and Moan, T., "Verification study of GTT liquid motion analysis of GTT membrane tank", MARINTEK Report MT60 F02-140, to Lloyds Register (Confidential).
100. Ørjasæther, O., Moan, T., Haagenen, P.J., Skallend, B., Pedersen, K., Rølvåg, T. and Tveiten B.W., "Fatigue of Light Metal Structures. State of the art.", SINTEF Report STF24 A02224. 2002.
101. Moan, T. and E. Ayala-Uraga, (2003). "Reliability-based assessment of FPSOs for service life extension". Technical Report OTD 2003-01, American Bureau of Shipping, Houston.
102. Moan, T., Ayala, E., Amlashi H., Dong G., (2004). "Safety formats for ultimate strength and corresponding load effect models for FPSOs". Report MK/R 153, Department of Marine Technology, Norwegian University of Science and Technology. Trondheim. Report to American Bureau of Shipping.

5.3 Lecture notes

Moan, T.: "Dynamic Analysis of Ship Structures", Div. of Ship Structures, NTH, 1973.

Moan, T.: "Structural Analysis with the Finite Element Method. Practical Assessment of Mathematical Model Discretization and Round-off Errors", Div. of Ship Structures, NTH, 1974.

Moan, T., Spidsøe, N. and Haver, S.: "Analysis of Uncertainty", (in Norwegian), Div. of Marine Structures", 1980.(translated into English ,2000)

Moan, T.: "Design of Offshore Structures", Div. of Marine Structures, NTH, 1980.

Moan, T.: "Introduction to Dynamic Analysis of Marine Structures", (in Norwegian) Div. of Marine Structures, NTH, 1991.



- Moan, T.: "Design of Marine Structures", Vol. 1, Univ. of Cal., Berkeley, 1994.
- Moan, T.: "Structural Reliability and Risk Analysis", Div. of Marine Structures, NTH, 1996.
- Moan, T.: "Introduction to the Finite Element Method", UK-00-75, Dept. of Marine Structures, NTNU, September 2000.
- Moan, T., "Accidental Actions. Background for NORSOK N-003". MK/R-147. Dept. of Marine Structures, NTNU, January 2000.
- Moan, T.: "Design of Offshore Structures. Design Procedures and Criteria." Vol. 1, UK-01-84, Dept. of Marine Structures, NTNU, 2001.
- Moan, T.: "Finite Element Modelling and Analysis of Marine Structures." UK-03-98, Dept. of Marine Structures, NTNU, 2003.
- Moan, T.: "Analysis and Design of FPSOs." Short course at the National University of Singapore, November 2005.
- Graczyk, M. and Moan, T.: "Gas carriers and ship type facilities for offshore gas production", NTNU 2005.
- Moan, T.: "Nonlinear Stochastic Response of Marine Structures", NTNU, 2008

5.4. Books

1. Moan, T. and Shinozuka, M. (eds.): "Proc. Third Int. Conf. on Structural Safety and Reliability", Elsevier, 1981.
2. Moan, T. et al. (eds.): "Proc. Fifth BOSS Conf.", Tapir Publ., 1988.
3. Holden, K.O., Faltinsen, O.M. and Moan, T. (eds.): "Proc. First FAST Conf.", Tapir Publ., 1991.
4. Moan, T. et al. (eds.) "Proc. Second European Conf. on Structural Dynamics (EURODYN), A.A. Balkema publ., 1993.
5. Faltinsen, O.M., Larsen, C.M., Moan, T., Holden, K.: "Proc. Conf. on Hydroelasticity in Marine Technology", Trondheim, May 1994, published by A.A. Balkema, 1994.
6. Moan, T. (ed.): "Teknologi for et bedre samfunn", Tapir forlag, 1996
7. Moan, T. and Berge, S. "Proc. 13th ISSC Congress", Elsevier publishers, Vol 1 and 2, 1997; Vol 3, 1998.
8. Næss, A. and Moan, T. Stochastic Dynamics of Marine Structures, Cambridge University Press, 2012.

5.5 Other publications

1. Richards, A.F., Caldwell, J.B., Moan, T. et al. "Ocean Engineering Teaching at the University Level", Report No. 25 on Marine Science, UNESCO, Paris, 1983.
2. Moan, T., Krohn, C., Hansen, A. og Kavlie, D. "Johannes Moe - teknologen og samfunnsbyggeren", Teknologi for et bedre samfunn, T. Moan (red.), Tapir Forlag, Trondheim, 1996, side 9 - 31
3. Moan, T. "Evaluation of Graduate Ocean Engineering Program at COPPE", Federal University of Rio de Janeiro, Nov. 30, 1995.
4. Moan, T., "Marin teknologi" kap. i Teknologi for samfunnet, NTH i en brytningstid 1985-1995.
5. Moan, T., Flaa, D. Jemtland, T., Kavlie, D. og Kristiansen, H. "NTVA som forskningspolitisk forum", Norges Tekniske Vitenskapsakademi, Rapport no. 5, Trondheim, 1996.
6. Moan, T., Bevilacqua, L. and Estefen, S. "Evaluation of Dept. of Naval Arch. and Ocean Engng.", Univ. of Sao Paulo, May 1998.
7. Kleppe, J., Moan, T. et al. "Evaluation of the Stavanger College", Norgesnettrådet, 1999.
8. Moan, T. "Evaluation of Research of the Marine Technology Unit", University of Lisbon", 1999.
9. Moan, T. "European R & D for Marine Structures. Recent Accomplishments and Future Trends", Society of Naval Architectures of Japan. Int. Symp. on R & D, Tokyo, September 2000.



10. Digernes, T., Bratteland, E., Endal, A., Hovem, J., Kjørsvik, E., Magnussen, O., Moan, T. and Olsen, Y. (1999). "Research for competitive and sustainable development in marine sector. NTNU's research for marine sector" (in Norwegian).
11. Moan, T. "Ivar Holand", Minnetale, Det Kgl. Videnskabers Selskabs Forhandlinger, 2000
12. Bernt, J.F., Bing, J., Krüger, Mauritzen, T., Moan, T. og Ringnes, A., "Arbeidstageroppfinnelser ved Universiteter og Høgskoler", Rapport avgitt til Univ. og Høgskolerådet i Oktober 2001, Rapport 3/02, Institutt for rettsinformatikk, Univ. i Oslo, 2002.
13. Kvaal, S., Moan, T., Moe, J. and Wilhelmssen, G. "Et hav av muligheter. Fra skipsteknikk 1911 til marin teknikk 2001", Tapir Trondheim, 2003.
14. Ringnes, A., Bernt, J. F., Bing, J., Børde, C., Krüger, K., Laukholm, A., Moan, T., "Opphavsrettslige problemstillinger ved universitetene og høgskolene". Rapport angitt til Univ. og Høgskolerådet, Complex 1/04, institutt for rettsinformatikk, Universitet i Oslo, 2004.

6. Awards/honours

Fullbright Fellowship, 1976
First Bruce Wallace Lecture Recipient, Mass Inst. of Technology, 1981
Elected Member of the Norwegian Academy of Technological Sciences (1982-), Vice-president 1993-1997 .
Keynote lecture, MAFELAP, Cranfield, 1979
Keynote lecture ICASP, Firenze, 1983.
OMAE best paper award, 1992
IASSAR award lecture at the Sixth ICOSSAR, 1993
28th Boase lecture, Univ. of Colorado, 1994
Elected, Fellow, Royal Academy of Engineering, UK, 1994.
Elected, Member, Royal Norwegian Academy of Sciences and Letters, 1995.
Elected, Fellow, American Society of Civil Engineers, 1995.
Keynote lecture, ISOPE, Honolulu, 1997.
Statoil Research Prize, 1998.
Keynote lecture, EURO DYN, Prague, 1999
Keynote lecture, OMAE conference, New Orleans, 2000.
Elected, Fellow, Int. Assoc. of Bridge and Structural Engineers, 2001.
Elected, Member Norwegian Academy of Science and Letters, 2002
Elected, Offshore Energy Center, Hall of Fame, Houston, 2002
Director of Centre of Excellence, CeSOS, awarded by the Research Council of Norway, 2002
Called Keppel Professor at national University of Singapore, 2002-2007.
Keynote lecture, FAST, Ischia (Napoli), 2003.
Keppel lecture, National University of Singapore, 2003.
Life member of ASME International 2004
Keynote lecture, PRADS conference, Lübeck-Travemünde, 2004.
Keynote lecture, OMAE conference, Vancouver, 2004.
Keppel Lecture, National University of Singapore, 2004.
ASME J.W. Rice Award, 2004.
Keynote lecture, TEAM conference, Singapore, 2005.
Keynote lecture, MARINE conference, Oslo, 2005.
Keppel Lecture, National University of Singapore 2005.
ISOPE Award, 2006 (the first recipient of the ISOPE award).
SOBENA Award, and keynote lecture at the SOBENA conference, Rio de Janeiro, 2006
Keynote lecture, NAV conference, Genova, 2006.
Keynote lecture, ASRA Net conference, Glasgow, 2006
(The first recipient of) Petroleum Safety Authority Award, 2006
J. Structures and Infrastructures Engineering best paper award, 2006.
Keppel Lecture, National University of Singapore 2005.
Keynote lecture, MARINE conference, Barcelona, 2007
J. Ships and Offshore Structures, best paper award (with M. Graczyk and M.K. Wu), 2007.
Keynote lecture, IACCLE conference, Varenna, 2008.
Keynote lecture, Doss2009 conference, Harbin
Keynote lecture, ICOSSAR2009 conference, Osaka
TRANS-NAV Conference, Gdynia, Best paper award (with K.G. Aarsæther), 2009



Honorary Professor, Harbin Engineering University, 2009.
Keynote lecture, PRADS conference, Rio de Janeiro, 2010
Keynote lecture, MTEC conference, Singapore, 2011
The Peachman lecture, U.Michigan, 2012.
Keynote lecture, RAVE conference, Bremerhafen, May 2012.
Keynote lecture, ASRANet conference, London, 2012.
Appointed Academic Master (« visiting professor ») at Dalian University of Technology
Lloyds Register Educational Trust (LRET) Distinguished Lecture, U. Aberdeen, 2012

7. PhD Graduates Supervised

1. Nordsve, Nils T.: "Finite Element Collapse Analysis of Structural Members Considering Imperfections and Stresses due to Fabrication." 1980.
2. Fylling, Ivar J.: "Analysis of Towline Forces in Ocean Towing Systems." 1980.
3. Haver, Sverre: "Analysis of Uncertainties related to the Stochastic Modelling of Ocean Waves." 1980.
4. Odland, Jonas: "On the Strength of Welded Ring Stiffened Cylindrical Shells Primarily subjected to Axial Compression." 1981.
5. Engesvik, Knut: "Analysis of Uncertainties in the Fatigue Capacity of Welded Joints." 1982.
6. Mo, Olav: "Stochastic Time Domain Analysis of Slender Offshore Structures". 1983.
7. Soares, C. Guedes: "Probabilistic Models for Load Effects in Ship Structures". 1983.
8. Mørch, Morten: "Motions and Mooring Forces of Semi Submersibles as determined by Full-scale Measurements and Theoretical Analysis". 1984.
9. Engseth, Alf G.: "Finite Element Collapse Analysis of Tubular Steel Offshore Structures". 1985.
10. Baadshaug, Ola: "Systems Reliability Analysis of Jacket Platforms". 1985.
11. Hessen, Gunnar: "Fracture Mechanics Analysis of Stiffened Tubular Members". 1986.
12. Taby, Jon: "Ultimate and Post-ultimate Strength of Dented Tubular Members". 1986.
13. Wessel, Heinz-Joachim: "Fracture Mechanics Analysis of Crack Growth in Plate Girders." 1986.
14. Leira, Bernt Johan: "Gaussian Vector-processes for Reliability Analysis involving Wave-Induced Load Effects". 1987.
15. Jiao, Guoyang: "Reliability Analysis of Crack Growth under Random Loading considering Model Updating." 1989.
16. Olufsen, Arnt: "Uncertainty and Reliability Analysis of Fixed Offshore Structure". 1989.
17. Wu, Yu-lin: "System Reliability Analyses of Offshore Structures using improved Truss and Beam Models". 1989.
18. Farnes, Knut-Arild: "Long-term Statistics of Response in Non-linear Marine Structures. 1990.
19. Hoen, Christopher: "System Identification of Structures Excited by Stochastic Load Processes". 1991.
20. Haugen, Stein: "Probabilistic Evaluation of Frequency of Collision between Ships and Offshore Platforms." 1991.
21. Marley, Mark J.: "Time Variant Reliability under Fatigue Degradation." 1991.
22. Bessason, Bjarni: "Assessment of Earthquake Loading and Response of Seismically Isolated Bridges", 1992.
23. Dalane, J.I.: "System Reliability in Design and Maintenance of Fixed Offshore Structures", 1993.
24. Karunakaran, Daniel N.: "Nonlinear Dynamic Response and Reliability Analysis of Drag-dominated Offshore Platforms", 1993.
25. Bech, Sidsel May: "Experimental and Numerical Determination of Stiffness and Strength of GRP/PVC Sandwich Structures", 1995.
26. Hovde, Geir Olav: "Fatigue and Overload Reliability of Offshore Structural Systems, considering the Effect of Inspection and Repair", 1995.
27. Wang, Xiaozhi: "Reliability Analysis of Production Ships with Emphasis on Load Combination and Ultimate Strength", June 1995.
28. Hellan, Øyvind: "Nonlinear Pushover and Cyclic Analyses in Ultimate Limit State Design and Reassessment of Tubular Steel Offshore Structures", 1995.
29. Hermundstad, Ole Andreas: "Theoretical and Experimental Hydroelastic Analysis of High Speed Vessels", February 1996.
30. Eknes, Monika Løland: "Escalation Scenarios Initiated by Gas Explosions on Offshore Installations". 1996.
31. Igland, Ragnar Torvanger: "Reliability Analysis of Pipelines during Laying, Considering Ultimate Strength under Combined Loads". 1997.
32. Azadi, Mohammad R. Emami: "Analysis of Static and Dynamic Pile-Soil-Jacket Behaviour". 1998.



33. Videiro, Paulo Mauricio: "Reliability Based Design of Marine Structures". 1999.
34. Tveiten, Bård Wathne: "Fatigue Assessment of Welded Aluminium Ship Details". 1999.
35. Sagli, Gro: "Model uncertainty and simplified estimates of long term extremes of hull girder loads in ships". 2000.
36. Wang, Lihua: "Probabilistic Analysis of Nonlinear Wave-induced Loads on Ships". 2001.
37. Kristensen, Odd H.H. : "Ultimate Capacity of Aluminium Plates under Multiple Loads, Considering HAZ properties". 2001-11-07.
38. Heggelund, S.E. "Calculation of Global Design Loads and Load Effects in Large High Speed Catamarans". 2001.
39. Økland, O.D.: "Numerical and experimental investigation of whipping in twin hull vessels exposed to severe wet deck slamming", 2002.
40. Ge, Chunhua: "Global Hydroelastic Response of catamarans due to Wetdeck Slamming", 2002.
41. Chen, Haibo: "Probabilistic evaluation of FPSO-tanker collision in tandem offloading operation", 2003.
42. Bjørheim, Lars G.: "Failure assessment of long through thickness fatigue cracks in ship hulls", 2006
43. Storhaug, Gaute: "Experimental investigation of wave induced vibrations and their effect on the fatigue loading of ships", 2007.
44. Gao, Zhen: "Stochastic response analysis of mooring systems with emphasis on frequency-domain analysis of fatigue due to wide-bandresponse processes", 2008.
45. Ye, Naiquan: "Fatigue assessment of aluminium welded box-stiffener joints in ships", 2008.
46. Drummen, Ingo: "Experimental and numerical investigation of nonlinear wave-induced load effects in containerships considering hydroelasticity", 2008.
47. Graczyk, Mateusz: "Experimental investigation of sloshing loading and load effects in membrane LNG tanks subjected to random excitation", 2008.
48. Taghipour, Reza: "Efficient prediction of dynamic response for flexible and multi-body marine structures", 2008.
49. Amlashi, Hadi: "Ultimate Strength and Reliability-based Design of Ship Hulls with Emphasis on Combined Global and Local Loads", 2009.
50. Ayala-Uraga, Efren: "Reliability-based Assessment of Deteriorating Ship-shaped Offshore Structures", 2009.
51. Hals, Jørgen: Modelling and Phase Control of Wave-Energy Converters. 2010
52. Shu, Zhi Uncertainty Assessment of Wave Loads and Ultimate Strength of Tankers and Bulk Carriers in a Reliability Framework. 2010
53. Jia, Huirong: Structural Analysis of Intact and Damaged Ships in a Collision Risk Analysis Perspective 2011
54. Karimirad, Madjid: Stochastic Dynamic Response Analysis of Spar-Type Wind Turbines with Catenary or Taut Mooring Systems. 2011
55. Yang, Limin: Stochastic Dynamic System Analysis of Wave Energy Converter with Hydraulic Power Take-Off, with Particular Reference to Wear Damage Analysis, 2011.
56. Su, Biao Numerical Predictions of Global and Local Ice Loads on Ships. 2011
57. Aarsæther, Karl Gunnar: Modeling and Analysis of Ship Traffic by Observation and Numerical Simulation. 2011
58. Chen, Qiaofeng: Ultimate Strength of Aluminium Panels, considering HAZ Effects. 2011.
59. Kota, Ravikiran S.: Wave Loads on Decks of Offshore Structures in Random Seas, 2012
60. Dong, Wenbin: Time-domain Fatigue Response and Reliability analysis of offshore wind turbines with emphasis on welded tubular joints and gear components, 2012
61. Zhu, Suji: Investigation of Wave-induced Nonlinear Load Effects in Open Ships considering Hull Girder Vibrations in Bending and Torsion, 2012
62. Li Zhou: Numerical and Experimental Investigation of Stationkeeping in Level Ice, 2012
63. Kurniawan, Adi: Modelling and geometry optimisation of wave energy converters, 2013
64. Xing, Yihan: Modelling and analysis of gearbox in floating spar type wind turbine, 2013
65. Etemaddar, Mahmoud: Load and response analysis of wind turbines under atmospheric icing controller system faults with emphasis on spar type wind turbines, 2013
66. Rogne, Øyvind: Numerical and Experimental Investigation of a Hinged 5-Body Wave Energy Converter , 2014
67. Bachynski, Erin Elizabeth.: Design and Dynamic Analysis of Tension Leg Platform, 2014

Currently dr. Moan is supervising about 15 PhD candidates beyond those listed above..



8. Educational activities

Dr. Moan has especially engaged in developing a course program relating to design of offshore structures, dynamics of multi-body and elastic structures, statistics and probabilistic methods, and reliability analysis.

More than 400 MSc candidates have been supervised during their thesis work.

9. Host of Visiting Professors/Research Fellows at NTH (stays of 3 months and more)

- Prof. Jiao de Oliveira, MIT, "Impact Resistance of Tubular Members", Summer 1979
Prof. Kim Vandiver, MIT, "Stochastic Dynamic Analysis of Offshore Structures", Summer 1980
Prof. Jizu Xu, Tianjin Univ., "Dynamic analysis of platforms subjected to ice-loads", 1979-81.
Prof. Nie Wu, Harbin Univ., "Dynamic analysis of jack-up platforms" 1982-83.
Dr. Sherif Rashed, CRC/Osaka Univ., "Structural Unit. Method as Applied to Frame Works", 1979-1980.
Prof. Tetsuya Yao, Hiroshima Univ., "Ultimate Strength Analysis of Structures", 1984 – 1985
Dr. Masataka Katayama, CRC, Osaka, Collapse Analysis of Structures, 1985-86
Prof. Lieu Teh-fu, Tianjin Univ., "Uncertainty Analysis of Wave Loading on Jackets" 1988-1989.
Prof. Masahiko Fujikubo, Hiroshima Univ., "Fracture Strength of Welded Plates", 1988 - 1989
Prof. H. Okada, Osaka prefecture University, "Reliability Analysis of Structures", 1984 - 1985
Prof. G.D. Panagiotopoulos, Univ. Patras, "Analysis of Stiffened Panels", 1988 -1989
Prof. E.E. Theotokoglou, Univ. Athens, "Analysis of Composite Sandwich Tee-joints", 1989 -1990, Summer 1993.
Dr.ing. Wu Yu Lin, Jiao Tong Univ., Shanghai, "Systems Reliability Analysis", 1990.
Prof. Ian Jordaan, Univ. of Newfoundland, St. John's, "Ice loads and response, and risk assessment", Summer 1990.
Prof. Segen F. Estefen, Ph.D., Univ. Rio de Janeiro, "Ultimate Strength of Tubulars Subjected to Pressure, Tension and Bending", 1991-92.
Dr. Yong Bai, Jiao Tong Univ. Shanghai/Hiroshima Univ., "Ultimate Collapse of Tubular Members", 1991-92, Summer 1993.
Prof. Dan Frangopol, Univ. of Colorado, Boulder, "Systems Reliability Analysis", Summer 1991, Summer 1992.
Lecturer Dr. Mingkang Wu, Jiao Tong Univ., Shanghai, "Hydroelastic Analysis of High Speed Vehicles", 1992-1996.
Lecturer Xiaomin Li, Tianjin Univ., "Structural Analysis of Pipelines", 1992-93.
Dr. Wei-Liang Jin, Zhejiang University, "Structural Reliability Analysis", 1994-95
Dr. Christina Wang, NTNU/Kvaerner, "Ultimate strength of aluminium plates", 1995 (6 months)
Prof. Achintya Haldar, Univ. of Arizona, Tucson, "Reliability-Based Inspection Planning", 1995
Dr. Ruxin Song, Jiao Tong University, Shanghai, "Reliability-Based Inspection Planning", 1996- 1998.
Dr. Yufeng Zha, Hiroshima University, "Ultimate strength of aluminium structures", 1998-2001.
Professor Paul Grundy, Monash University, "Ultimate Collapse Strength of Steel Structures", 1999.
Dr. Xuekang Gu, CSSRC, "Nonlinear wave loading on ships", 1999-2000, 2004.
Dr. Gro Sagli Baarholm, NTNU, "Probabilistic Modelling of Multiple Loads on Ships" 2000-2002.
Dr. Ole Hermundstad, MARINTEK "Slamming loads on ship structures" (2003 -)
Dr. MingKang Wu, MARINTEK "Hybrid frequency-time domain simulation of ship response" (2003 -)
Prof. L. Kafatygiotis, Hong Kong, "Monte Carlo Simulation of ..." 2004
Dr. X.Y. Zheng, National University of Singapore, "Frequency domain second order stochastic analysis", 2005-2007.
Dr. Wenbo Huang, Shanghai Jiao Tong University, "Stochastic load combination of extreme and fatigue loading", 2004-2006.
Dr. Xiaoping Huang, Shanghai Jiao Tong University, "Mean stress effect on fatigue", 2005- 2006.
Dr. Xujun Chen, CSSRC, "Second Order Analysis of VLFS", 2005.
Prof. H. Kawabe, Tokai University, "Effect of ship operation on wave-induced loads", 2005.
Dr. S. Fu, Shanghai Jiao Tong University, 2005 –2007
Dr. Junji Sawamura, Osaka University, 2006-2008
Dr. Kazuhiro Iijima, Osaka University, 2007-08.
Dr. Z. Gao, NTNU, 2008-
Dr. A. Babarit, Ecole Centrale, Nantes, Wave energy converters, 2010-2011
Dr. N. Saha, Indian Institute of Science, 2008-2010, 2011
Dr. Y. He, Zhejiang University, 2011-2012
Professor Tanaka, Hiroshima University, 2011-2012
Dr. Limin Yang, NTNU, 2011-2013



Dr. Huirong Jia, NTNU, 2011-2012
Dr. Madjid Karimirad, NTNU, 2011-2012
Dr. Biao Su, NTNU, 2011-2012
Dr. X.Ye, Harbin Engineering University, 2013-2014
Dr. C. Michailides, U. Thessaloniki, 2013-2015
Dr. Nianxin Ren, Dalian University of Technology, 2013-2014
Dr. Ali Nematbakhsh Worcester Polytechnic Institute, USA., 2013-2015
Dr. Wei Shi, Pohang University of Science and Technology, Korea, 2014-2016

9. Doctoral Committees and Assessment of professorships

(last 10 years)

Professorship, Dept. Naval Arch. and Ocean Eng., Univ. of California, Berkeley, 1995, 1996, 1997.
Professorship, FRP Structures, Dept. Mech. Engng., NTNU, 1991.
Professorship, Meerestechnik, Univ. Hamburg-Harburg, 1991.
Professorship, Struct. Engng., Dept. of Civil Engng., NTNU, 1994.
Dr. thesis, Dept. of Civil Engng., National Univ. of Singapore, 1995.
Professorship, Dept. of Naval Architecture, National Univ. of Athens, 1999.
Professorship, Dept. of Naval Architecture, Hiroshima University, 1999.
Professorship, Dept. of Naval Arch. & Ocean Engng., Glasgow Univ., 1999.
Dr. thesis, Faculty of Mechanical Engng., NTNU, 2000.
Professorship of Naval Architecture, DTU, Lyngby, 2001.
Professorship of Offshore Structures, University College, Stavanger, 2003
Professorship of Material Technology, NTNU, 2003
Professorship, Dept. of Naval Architecture, National University, Athens, 2003
Professorship of Engineering Science, Oxford University, 2004.
Professorship, Marine Science, Southampton University, 2004.
Dr. thesis, Delft University of Technology, 2004.
Dr. thesis, Technical University of Denmark, 2004.
Dr. thesis, NTNU, 2005.
Dr. thesis, Technical University of Denmark, 2005.
Dr. thesis, University of Stavanger, 2006.
Professorship in materials science, NTNU, 2007.
Professorship in structural engineering, Harbin Engineering University, 2007.
Professorship in naval architecture and ocean engineering, University of Michigan, 2008.
Dr.thesis, Chalmers University of Technology, 2009.
Professorship DTU, wind energy, 2011
Professorship, Aalto University, 2011
Dr. thesis, Indian Institute of Technology, New Dehli, 2012
Professorship, Instituto Superior Tecnico. Lisbon, 2013

10. Other presentations

Extensive presentations:

“Design of Offshore Structures”, Trondheim, RWTH, Aachen, 1979.
“Safety of Offshore Structures - after the Alexander L. Kielland Accident”, First Wallace Lecture, Dept. of Ocean Engng., Mass. Inst. of Technology, April 1981.
“Design of Offshore Structures”, Tianjin University, Nov. 1981.
“Advanced University Curricula in Ocean Engineering and Related Fields”, UNESCO, Paris, 11-16. Oct. 1982.
“Analysis and Design of Marine Structures with respect to Progressive Failure”, CRC/Osaka 1985.
“Fatigue Design of Marine Structures”, Century Research Corp. (CRC), Osaka/Tokyo, 1985.
“Reliability of Offshore Structures”, IEOT, Oil and Natural Gas Commission, India, January 6.-19., 1991.
“Analysis and Design of Floating Production Systems”, Univ. of Texas, Austin, TX, Oct. 1991.
“Safety and Reliability of Marine Structures”, Tokyo/Osaka/Hiroshima/Fukuoka Univ. 1995
“Evaluation of Engineering Schools”, Federal Univ. of Rio de Janeiro, Oct. 1995.
“Why Buildings Collapse: Failure by Design”. Alexander Kielland-accident. Television Presentation, ITV, UK, 2001-10-20.
“Floating production systems”, National University of Singapore, July 15-17, 2003 and Nov. 2004.



“Ships for production and transport of oil and gas”, National University of Singapore, Nov. 28-29, 2005.

“Risk and reliability analysis of ships and offshore structures”, Korean Register of Shipping, Daejeon, May 2012

“Marine Structures and Operations for the Future” Dalian University of Technology, 2012

Numerous guest lectures in Hamburg/Aachen, Germany; London/Cranfield, UK; Udine, Italy; UCB Berkeley, MIT Cambridge, Mass./Austin/Boulder/Houston/Tulsa, San Francisco, Santa Barbara, USA; Osaka/Tokyo/Hiroshima/Fukoka, Japan; Tianjin/Shanghai, China; Rio de Janeiro, Brasil; Melbourne, Australia.

January, w/mod. PhD and Postdoc. Dec. 2013