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References

- [1] M. H. Aliabadi and C. A. Brebbia, *Advanced Formulations in Boundary Element Methods*, Computational Mechanics Publ., Southampton, 1993.
- [2] M. H. Aliabadi and C. A. Brebbia, *Advances in Boundary Element Methods for Fracture Mechanics*, Computational Mechanics Publ., Southampton, 1993.
- [3] A. Portela, *Dual Boundary Element Analysis of Crack Growth*, Computational Mechanics Publ., Southampton, 1993.
- [4] A. Portela, *Crack Growth Analysis Using Boundary Elements*, Computational Mechanics Publ., Southampton, 1995.
- [5] V. M. A. Leitao, *Boundary Elements in Nonlinear Fracture Mechanics*, Computational Mechanics Publ., Southampton, 1994.
- [6] Y. Mi, *Three Dimensional Analysis of Crack Growth*, Computational Mechanics Publ., Southampton, 1996.
- [7] N. N. V. Prasad, *Thermomechanical Crack Growth Using Boundary Elements*, Computational Mechanics Publ., Southampton, 1998.
- [8] A. Wilde, *A dual boundary element formulation for three-dimensional fracture analysis*, WIT Press, 2000.
- [9] A. L. Saleh, *Crack growth in concrete using boundary elements*, Comp. Mech. Publ., Southampton, 1997.
- [10] J. Y. Li, E. Lee, S. Hsieh and D. X. Xiang, *Handy MSC/NASTRAN — Example problem manual*, The MacNeal-Schwendler Company, 1992.
- [11] J. Tuhkuri, *Dual Boundary Element Analysis of Closed Cracks*, Int. J. Numer. Meth. Engng., Vol.40, pp.2995-3014, 1997.
- [12] J. Tuhkuri, *Experimental investigations and computational fracture mechanics modelling of brittle ice fragmentation*, Acta Polytech Scie. Mech., Vol.120, pp.1-105, 1996.
- [13] A. Young, *A Single-domain Boundary Element Method for 3-D Elastostatic Crack Analysis Using Continuous Elements*, Int. J. Numer. Meth. Engng., Vol.39, pp.1265-1293, 1996.
- [14] A. Young, *Improved Numerical Method for the Traction Boundary Integral Equation By Application of Stokes' Theorem*, Int. J. Numer. Meth. Engng., Vol.40, pp.3141-3161, 1997.
- [15] A. M. Yan and H. Nguyen-Dang, *Multiple cracked fatigue crack growth by BEM*, Computational Mechanics, Vol. 16, pp. 273-280, 1995.
- [16] D. H. Tsaur and S. R. Her, *Effects of a Hole on Uplifting Forces on a Submerged Horizontal Thin*

- Plate, Journal of Marine Science and Technology, Vol.4, No.1, pp.55-60, 1996.
- [17] M. Tanaka, V. Sladek and J. Sladek, Regularization Techniques Applied to Boundary Element Methods, Appl. Mech. Rev., Vol.47, No.10, pp.457-499, 1994.
- [18] D. E. Beskos, Boundary element methods in dynamic analysis: Part II (1986-1996), Appl. Mech. Rev., Vol.50, No.3, pp.149-197, 1997.
- [19] M. H. Aliabadi, Boundary Element Formulations in Fracture Mechanics, Appl. Mech. Rev., Vol.50, No.2, pp.83-96, 1997.
- [20] J. Y. Huang and H. So, Determination of dynamic stress intensity factors of multiple cracks, Int. J. Fracture, Vol.36, pp.187-198, 1988.
- [21] A. Portela, M. H. Aliabadi and D. P. Rooke, Dual Boundary Element Method: Effective Implementation for Crack Problems, Int. J. Numer. Meth. Engng., Vol.33, pp.1269-1287, 1992.
- [22] S. H. Crandall, A New Hysteretic Damping Model ? Mech. Res. Commu., Vol.22, No.2, p.201, 1995.
- [23] L. J. Gray, B. Chinta and James H. Kane, Symmetric-Galerkin Fracture Analysis, Engineering Analysis with Boundry Elements, Vol.15, pp.103-109, 1995.
- [24] L. J. Gray and G. H. Paulino, Crack Tip Interpolation, Revisited, SIAM Journal on Applied Mathematics, Vol.58, No.2, pp.428-455, 1998.
- [25] 曹登皓, 岳景雲, 周鄂東, 「侵水剛性垂直薄板擋波效果的對偶邊界元素法解析」, 十七屆海洋工程研討會論文集, 中華民國台灣, 第 749-763 頁 (1995).
- [26] K. T. Chau and Y. B. Wang, A New Boundary Integral Formulation for Plane Elastic Bodies Containing Cracks and Holes, Int. J. Solids and Structures, Vol.36, No.14, pp.2041-2074, 1999.
- [27] L. J. Gray and G. H. Paulino, Symmetric-Galerkin Boundary Integral Fracture Analysis for Plane Orthotropic Elasticity, IUTAM Symposium on Innovative Computational Methods for Fracture and Damage, 1996.
- [28] L. J. Gray and G. H. Paulino, Symmetric-Galerkin Boundary Integral Fracture Analysis for Plane Orthotropic Elasticity, *Compu. Mech.*, Vol.20, pp.26-33, 1997.
- [29] H. B. Chen, P. Lu, M.G. Huang and F. W. Williams, An Effective Method for Finding Values on and near Boundaries in the Elastic BEM, Computers and Structures, Vo.69, pp.421-431, 1998.
- [30] S. W. Chyuan, Finite Element Simulation of a Twin-Cam 16-Valve Cylinder Structure, Finite Element Analysis and Design, Vol.35, pp.199-212, 2000.
- [31] S. W. Chyuan, A study of loading history effect for thermoviscoelastic solid propellant grains, Computers and Structures, Vol.77, pp.735-745, 2000.
- [32] E. Detournay and A. H.-D. Cheng, Plane strain analysis of stationary hydraulic fracture in a poroelastic medium, Int. J. Solids and Structures, Vol.27, No.13, pp.1645-1662, 1991.
- [33] A. H.-D. Cheng and E. Detournay On singular integral equations and fundamental solutions of poroelasticity, Int. J. Solids and Structures, Vol.35, No.34, pp.4521-4555, 1998.
- [34] E. N. Pan, A general boundary element analysis of 2-D linear elastic fracture mechanics, *Int. J. Fracture*, Vol.88, No.4, pp.41-59, 1997.
- [35] E. N. Pan, C. S. Chen and B. Amadei, A BEM formulation for anisotropic half-plane problems, *Engng.*

- Anal. BE*, Vol.20, No.3, pp.185-195, 1997.
- [36] M. Denda and Y. F. Dong, Complex variable approach to the BEM for multiple crack problems, *Comp. Meth. Appl. Mech. Engng.* Vol.141, pp.247-264, 1997.
- [37] E. Pan and B. Amadei, Fracture mechanics analysis of cracked 2-D anisotropic media with a new formulation of the boundary element method, *Int. J. Fracture*, Vol.77, pp.161-174, 1996.
- [38] E. Pan and B. Amadei, Boundary element analysis of fracture mechanics in anisotropic bimetals, *Engng. Anal. Bound. Elem.*, Vol.23, No.8, pp.683-691, 1999.
- [39] M. Ameen, B. K. Raghuprasad, A Hybrid Technique of modeling of cracks using displacement discontinuity and direct BEM, *Int. J. Fracture*, Vol.67, pp.343-355, 1994.
- [40] Y. Mi and M. H. Aliabadi, Dual boundary element method for 3-D fracture mechanics analysis, *Engng. Anal. BE*, Vol.10, pp.161-171, 1992.
- [41] Y. Mi and M. H. Aliabadi, Dual boundary element method for three-dimensional crack growth analysis, Proceedings of BEM XV Conference, C. A. Brebbia and J. J. Rencis Eds., pp.249-260, 1993.
- [42] M. Ettouney, H. Benaroya and J. Wright, Boundary element methods in Probabilistic Structural-analysis (PBEM), *Appl. Math. Model.*, Vol.13, pp.432-441, 1989.
- [43] M. Denda and Y. F. Dong, Analytical formulas for 2-D crack tip singular boundary element for rectilinear cracks and crack growth analysis, *Engng. Anal. BE*. Vol.23, pp.35-49, 1999.
- [44] 簡秋記與李俊南，以改良式邊界積分方程式分析三維聲波輻射問題，中國土木水利工程學刊，第六卷，第三期，頁 289-298，1994。
- [45] 張建仁，對偶邊界元素法及領域分割在振動問題之應用，海洋大學河海工程研究所博士論文，基隆，1999。
- [46] C. S. Chen and C. C. Ke, Fracture propagation of anisotropic plates by the boundary element method, *J. Chinese Institute of Engineers*, Vol.22, No.6, pp.741-751, 1999.
- [47] H. Kebir, J. M. Roelandt and Foulquier, A new singular boundary element for crack problems — Application to bolted joints, *Engineering Fracture Mechanics*, Vol.62, pp.497-510, 1999.
- [48] V. V. Zozulya and P. B. Rivera, Boundary integral equations and the existence theorems in contact problems with friction, *J. Chinese Institute of Engineers*, Vol.23, No.3, pp.313-320, 2000.
- [49] 趙儒民，對偶邊界元素法於船體結構裂縫問題之研究，國科會八十九年度專題研究計劃，成功大學造船與船舶機械工程學系，1999。
- [50] 陳義麟，二維圓柱外域 Helmholtz 場虛擬頻率產生機制之探討，中華民國第二十二屆全國力學會議論文集，頁 525-533，台南，1998。
- [51] A. A. M. Chiu, Determination of the kern of a spread foundation, *Geotechnical Engineering Journal*, Accepted, 2000.
- [52] H.-K. Hong and C. S. Liu, Coulomb friction oscillation: modeling and responses to harmonic loads and base excitations, *J. Sound and Vibration*, Vol.229, No.5, pp.1171-1192, 2000.
- [53] S. J. Zhou, S. X. Sun and Z. Y. Cao, The dual boundary contour method for two-dimensional crack problems, *Int. J. Fracture*, Vol.92, pp.201-212, 1998.

- [54] N. Elvin and C. Leung, A fast iterative boundary element method for solving closed crack problems, *Engng. Fract. Mech.*, Vol.63, pp.631-648, 1999.
- [55] J. R. Chang, W. C. Yeih and R. F. Liu, Solving the eigenproblem of a rod using the dual BEM in conjunction with the domain partition technique, pp.11-22, *Proceedings of the 13th Asian Technical Exchange and Advisory Meeting on Marine Structures*, Keelung, Taiwan, 1999.
- [56] R. M. Chao and F. C. Lin, Determining loading conditions of a cracked plate using inverse method with dual boundary elements, pp.283-292, *Proceedings of the 13th Asian Technical Exchange and Advisory Meeting on Marine Structures*, Keelung, Taiwan, 1999.
- [57] S. Zhou, Z. Cao and S. Sun, The traction boundary contour method for linear elasticity, *Int. J. Numer. Meth. Engng.*, Vol.46, No.11, pp.1883-1896, 1999.
- [58] C. Alessandri and V. Mallardo, Crack identification in two-dimensional unilateral contact mechanics with the boundary element method, *Comp. Mech.*, Vol.24, pp.100-109, 1999.
- [59] 黃嘉彥，以差排模式分析受彈性應力波作用下裂縫周圍之應力分析，台大機械工程研究所博士論文，1987。
- [60] B. Yang and K. Ravi-Chandar, A single-domain dual BEM formulation incorporating a cohesive zone model for elastostatic cracks, *Int. J. Fracture*, Vol.93, No.1-4, pp.115-144, 1998.
- [61] P. H. Wen, M. H. Aliabadi and A. Young, Approximate dynamic crack frictional contact analysis for 3D Structure, *J. Chinese Institute of Engineers*, Vol.22, No.6, pp.785-793, 1999.
- [62] V. V. Zozulya and P. I. Gonzalez-Chi. Weakly singular, singular and hypersingular integrals in 3D elasticity and fracture mechanics, *J. Chinese Institute of Engineers*, Vol.22, No.6, pp.763-775, 1999.
- [63] G. C. Hsiao and W. L. Wendland, Boundary integral methods in low frequency acoustics, *J. Chinese Institute of Engineers*, Vol.23, No.3, pp.369-375, 2000.
- [64] S. R. Kuo, W. Yeih and Y. C. Wu, Applications of the generalized singular-value decomposition method on the eigenproblem using the incomplete boundary element formulation, *J. Sound and Vibration*, Vol.235, No.5, pp.813-845, 2000.
- [65] R. M. Chao, Y. J. Chen and F. C. Lin, Determining the unknown traction of a cracked elastic body using the inverse technique with the dual boundary element method, *Computer Modelling in Engineering & Science*, Vol.2, No.1, pp.73-85, 2001.
- [66] R. M. Chao and S. Y. Lee, An h-adaptive refinement BEM procedure using modified sample point error analysis in two-dimensional elastic problems, *Advances in Engineering Software*, Vol.30, No.4, pp.227-242, 1999.
- [67] A. M. Linkov, *Complex variables boundary integral equations of elasticity theory*, St-Petersburg Science (Publ. House of Russian Academy of Sciences), 1999. (in Russian)
- [68] A. M. Linkov, *Boundary integral equations in elasticity theory*, Kluwer Academic Press, 2002.
- [69] A. H.-D. Cheng, Boundary element methods — An overview, *Mechanics Bulletin*, Vol.90, pp.1-17, 2000.
- [70] G. D. Manolis and R. P. Shaw, Harmonic elastic waves in continuously heterogeneous random layers, *Engineering Analysis with Boundary Elements*, Vol.19, No.3, pp.181-198, 1997.

- [71] R. P. Shaw and G. D. Manolis, A generalized Helmholtz equation fundamental solution using a conformal mapping and dependent variable transformation, *Engineering Analysis with Boundary Elements*, Vol.24, pp.177-188, 2000.
- [72] G. D. Manolis, R. P. Shaw and S. Pavlou, Elastic waves in nonhomogeneous media under 2-D conditions: I. fundamental solution, *Soil Dynamics and Earthquake Engineering*, Vol.18, No.1, pp.19-30, 1999.
- [73] S. Mukherjee, " Finite parts of singular and hypersingular integrals with irregular boundary source points ", *Engineering Analysis with Boundary Elements*, Vol.24, No.10, pp.767-776, 2000.
- [74] L. J. Gray and T. Kaplan, 3D Galerkin Integration Without Stokes, *Engineering Analysis with Boundary Elements*, Vol. 24, No.4-5, pp.289-295, 2001.
- [75] J. R. Chang, W. Yeih and J. J. Chang, Applications of the complete multiple reciprocity method for solving one-dimensional Helmholtz equation of a semi-infinite domain, *Advances in Engineering Software*, Vol.32, No.2, pp.111-117, 2000.
- [76] J. R. Chang and W. Yeih, Applications of domain partition in BEM for solving the the vibration of a rod subjected to a spatially distributed harmonic loadings, *J. Chinese Institute of Engineers*, Vol.24, No.2, pp.151-171, 2001.
- [77] *Geomechanics Abstracts*, Vol.1997, No.2, p.117, 1999.
- [78] V. V. Zozulya and P. I. Gonzalez-Chi. Application of the BIE with hypersingular integrals in fracture mechanics, *Boundary Elements XXII*, edited by B. A. Brebbia and H. Power, pp.451-460, 2000.
- [79] M. H. Aliabadi, *The boundary element method — applications in solids and structure*, Vol.2, John-Wiley, New York, 2001.
- [80] M. A. Abido, Pole placement technique for PSS and TCSC-based stabilizer design using simulated annealing, *Int. J. Elec. Power*, Vol.22, No.8, pp.543-554, 2000.
- [81] W. Dai, Y. Zhang and R. Nassar, A three dimensional numerical algorithm for predicting temperature rise in resist with arbitrary geometry of pattern during X-ray exposure, *Microelectron Eng.* Vol.49, No.3-4, pp.217-231, 1999.
- [82] W. Dai and R. Nassar, A hybrid finite element-finite difference method for thermal analysis in X-ray lithography, *Int. J. Numer. Meth. H9*, pp.660-676, 1999.
- [83] H. Hegab, Chen B. and W. Dai et al. Transient three-dimensional numerical model for thermal analysis in X-ray lithography, *Numer. Heat Transfer*, Vol.34, No.8, pp.805-819, 1998.
- [84] W. Dai and R. Nassar, Preconditioned Richardson numerical method for thermal analysis in X-ray lithography with cylindrical geometry, *Numer. Heat Transfer*, Vol.34, No.6, pp.599-616, 1998.
- [85] A. F. Averill and H. S. Mahmood, Determination of tertiary current distribution in electrodeposition cells. I. Computational techniques *Transactions of the Institute of Metal Finishing*, Vol.75, pp.228-233, 1997.
- [86] S. W. Lo and J. Y. Lee, Optimum blank shapes for prismatic cup drawing - consideration of friction and material anisotropy, *J. Manufacturing Science and Engineering*, *Transactions of the ASME*, Vol.120, No.2, pp.306-315, 1998.

- [87] 邱活泉、何建誠與邱垂鈺，利用 MSC/NASTRAN 改善化學機械研磨非均勻性，MSC. Software: Taiwan Solution Forum 2000, Taipei, 2000.
- [88] A. H. D. Cheng, D. L. Young and C. C. Tsai, Solution of Poisson's equation by iterative DRBEM using compactly supported, positive definite radial basis function, *Engineering Analysis with Boundary Elements*, Vol.24, No.7-8, pp.549-557, 2000.
- [89] Y. X. Mukherjee and S. Mukherjee, Error analysis and adaptivity in three-dimensional linear elasticity by the usual and hypersingular boundary contour method, *Int. J. Solids and Structures*, Vol.38, No.1, pp.161-178, 2001.
- [90] M. H. Aliabadi and C. A. Brebbia, Boundary element formulations in fracture mechanics : a review, in *Localized Damage IV, Computer Aided Assessment and Control*, Edited by H. Nishitani, M. H. Aliabadi, S.-I. Nishida and D. J. Cartwright, *Comp. Mech. Publ.*, 1996.
- [91] Seungwon, Youn, Applications of displacement and traction boundary integral equations for fracture mechanics analysis, Ph. D. Thesis, Iowa State Univ., 1993.
- [92] 張建仁、劉如峰與葉為忠，Helmholtz 方程於虛擬邊界元素法之探討，中華民國力學學會第二十四屆全國力學會議論文集，ATM 24-I-90, 中壢中原。
- [93] P. Partheymuller, M. Haas and G. Kuhn, Comparison of the basic and the discontinuity formulation of the 3D-dual boundary element method, *Engineering Analysis with Boundary Elements*, Vol.24, No.10, pp.777-788, 2000.
- [94] 林福春，對偶邊界積分方程式於裂縫問題之研究，成功大學造船暨船舶機械工程研究所，台南，1999。
- [95] D. W. Chang, J. M. Roesset and C. H. Wen, A time-domain viscous damping model based on frequency-dependent damping ratios, *Soil Dynamics and Earthquake Engineering*, Vol.19, pp.551-558, 2000.
- [96] 張俊德，邊界積分法於三維室內聲場脈衝響應研究，海洋大學造船工程研究所，基隆，1998。
- [97] 廖維貞，螺槳鳴音之理論分析及數值預測，海洋大學造船工程研究所，基隆，1998。
- [98] 劉建良，彈性輻射之速度波數與噪音輻射方向性之分析與計算，海洋大學系統暨造船工程研究所，基隆，1999。
- [99] 劉如峰，Helmholtz 方程於正規邊界元素法之探討，海洋大學系統暨造船工程研究所，基隆，2000。
- [100] R. E. Taylor and M. Ohkusu, Green functions for hydroelastic analysis of vibrating free-free beams and plates, *Applied Ocean Research*, Vol.22, No.5, pp.295-314, 2000.
- [101] J. C. Miranda-Valenzuela, K. H. Muci-Kuchler, S. Soriano-Soriano, Adaptive meshing for two-dimensional thermoelastic problems using Hermite boundary elements, *Advances in Engineering Software*, Vol.32, pp.171-188, 2001.
- [102] S. W. Chyuan, Nonlinear thermoviscoelastic analysis of solid propellant grains subjected to temperature loading, *Finite Element Analysis and Design*, Vol.38, No.7, pp.613-630, 2002.
- [103] 全湘偉、蔣作群與許寶慧，2001, MEMS 矽微熱元件剪應力計之分析、設計、製作暨應用，電子月刊第七卷第三期，170-186 頁。

- [104] H.-K. Hong and C. S. Liu, Non-sticking oscillation formulae for Coulomb friction under harmonic loading, *J. Sound and Vibration*, Vol.244, No.5, pp.883-898, 2001.
- [105] L. J. Gray, Evaluation of singular and hypersingular Galerkin integrals: direct limits and symbolic computation, Chapter 2, *Singular Integrals in Boundary Element Method*, Edited by V. Sladek and J. Sladek, *Comp. Mech. Publ.*, 1998.
- [106] T. Burczynski and W. Beluch, The identification of cracks using boundary elements and evolutionary algorithms, *Engineering Analysis with Boundary Elements*, Vol.25, pp.313-322, 2001.
- [107] M. Chati, S. Mukerherjee and G. H. Paulino, The meshless hypersingular boundary node method for three-dimensional potential theory and linear elasticity problems, *Engineering Analysis with Boundary Elements*, Vol.25, No.8, pp.639-653, 2001.
- [108] Z. R. Niu, X. X. Wang, H. L. Zhou and C. L. Zhang, A novel boundary integral integral equation method for linear elasticity - natural boundary integral equation, *Acta Mechanica Solida Sinica*, Vol.14, No.1, pp.1-10, 2001.
- [109] A. Salvadori and A. Carini, Analytical integration in 3D BEM, in the Symposium of the International Association for Boundary Element Method, IABEM 2000, Brescia, Italy.
- [110] A. Salvadori and A. Carini, Analytical integration in 3D BEM, Preliminaries, *Computational Mechanics*, Vol.28, pp.175-184, 2002.
- [111] S. W. Kang and J. M. Lee, Comments on “ Vibration analysis of arbitrary shaped membranes using non-dimensional dynamic influence functions” — Author’s reply, *J. Sound and Vibration*, Vol.235, No.1, pp.170-171, 2000.
- [112] M. S. Ingber, A. A. Mammoli and M. J. Brown, A comparison of domain integral evaluation techniques for boundary element methods, *Int. J. Numer. Meth.*, Vol.52, pp.417-432, 2001.
- [113] G. H. Paulino, G. Menon and S. Mukherjee, Error estimation using hypersingular integrals in boundary element methods for linear elasticity, *Engineering Analysis with Boundary Elements*, Vol.25, No.7, pp.523-534, 2001.
- [114] J. R. Chang, W. Yeih and M. H. Shieh, On the modified Tikhonov’s regularization method for the Cauchy problem of the Laplace equation, *J. Marine Science and Technology*, Vol.9, No.2, pp.113-121, 2001.
- [115] W. Yeih, J. R. Chang, Kuo, S. R. and R. F. Liu, On the false degeneracy of the Helmholtz boundary integral equation, *J. Sound and Vibration*, Vol.258, No.1, pp.95-122, 2002.
- [116] C. Zhang, A 2-D hypersingular time-domain traction BEM for transient elastodynamic crack analysis, *Wave Motion*, Vol.35, No.17-40, 2002.
- [117] E. Kita and N. Kamiya, Error estimation and adaptive mesh refinement in boundary element method — an overview, *Engineering Analysis with Boundary Elements*, Vol.25, No.7, pp.479-495, 2001.
- [118] K. H. Muci-Kuchler and J. C. Miranda-Valenzuela, A new error indicator based on stresses for three-dimensional elasticity, *Engineering Analysis with Boundary Elements*, Vol.25, No.7, pp.535-556, 2001.
- [119] M. Denda and Y. F. Dong, A unified formulation and error estimation measure for the direct and

- the indirect boundary element methods in elasticity, *Engng. Anal. BE.* Vol.23, pp.557-564, 2001.
- [120] A. Salvadori, Analytical integration in 2D BEM elasticity, *Int. J. Numer. Meth. Engng.*, Vol.53, pp.1695-1719, 2002.
- [121] K. H. Muci-Kuchler, J. C. Miranda-Valenzuela and S. Soriano-Soriano, Use of the tangent derivative boundary integral equations for the efficient computation of stresses and error indicators, *Int. J. Numer. Meth. Engng.*, Vol.53, pp.797-824, 2002.
- [122] L. Marin and D. Lesmic, Boundary element solution for the Cauchy problem in linear elasticity using singular value decomposition, *Comp. Meth. Appl. Mech. Engng.*, Vol.191, pp.3257-3270, 2002.
- [123] Nam, Mai-Duy and Thanh Tran-Cong, Mesh-free radial function network methods with domain decomposition for approximation of functions and numerical solution of Poisson's equations, *Engineering Analysis with Boundary Elements*, Vol.26, pp.133-156, 2002.
- [124] J. R. Chang and R. F. Liu, A study on the radiated fictitious resonant frequencies in the acoustic field generated by a buoy body, 第十四屆造船與輪機工程研討會，基隆，2002。
- [125] W. Chen and M. Tanaka, A meshless, integration free and boundary-only RBF technique, *Computers & Mathematics with Applications*, Vol.43, pp.379-391, 2002.
- [126] A. Z. Guz and V. V. Zozulya, Fracture dynamics with allowance for crack edge contact interaction, *Int. J. Nonlinear Sciences and Numerical Simulations*, Vol.2, No.3, pp.173-233, 2001.
- [127] J. R. Chang, R. F. Liu, S. R. Kuo and W. Yeih, Application of symmetric indirect Trefftz method to free vibration problems in 2-D, *Int. J. Numer. Meth. Engng.*, Vol.56, No.8, pp.1175-1192.
- [128] J. R. Chang, R. F. Liu, W. Yeih and S. R. Kuo, Application of the direct Trefftz boundary element method to the free vibration problem of a membrane, *J. Amer. Soc. Acous.*, Vol.112, No.2, pp.518-527, 2002.
- [129] A. Frangi, G. Novati, R. Springhetti and M. Rovizzi, 3D fracture analysis by the symmetric Galerkin BEM, *Comp. Mech.*, Vol.28, pp.220-232, 2002.
- [130] W. T. Ang, A note on the CVBEM for the two-dimensional Helmholtz equation or its modified form, *Comm. Numer. Meth. Engng.*, Vol.18, No.8, pp.599-604, 2002.
- [131] Y. C. Hon and W. Chen, Boundary knot method for 2D and 3D Helmholtz and convection-diffusion problems with complicated geometry, *Int. J. Numer. Meth. Engng.*, Vol.56, pp.1931-1948, 2003.
- [132] 黃正明，週期性負載下一維雙線性及平滑性之黏彈塑性振動行為的研究，海洋大學機械與機電工程研究所碩士論文，基隆，2002。
- [133] 豐禮文，具有束制矩形領域 Helmholtz 特徵值問題之研究，海洋大學河海工程研究所碩士論文，基隆，2002。
- [134] 江品昭，複變數邊界元素法在彈性力學平面問題探討，海洋大學河海工程研究所碩士論文，基隆，2002。
- [135] W. Chen and M. Tanaka, Relationship between boundary integral equation and radial basis function, JASCOME 57th BEM conference, 2000.
- [136] J. C. Miranda-Valenzuela and K. H. Muci-Kuchler, Adaptive meshing with boundary elements, *Topics in Engineering Software*, Vol.41, WIT Press, Southampton 2002.

- [137] C. C. Tsai, Mehless numerical methods and their engineering applications, Ph.D. Dissertations, Department of Civil Engineering, National Taiwan University, Taipei, 2002.
- [138] T. Dirgantara, Boundary element analysis of cracks in shear deformable plates and shells, WIT Press, 2002.
- [139] P. Dineva, D. Gross and T. Rangelov, Dynamic behaviour of a cracked soldered joint, *Journal of Sound and Vibration*, Vol.256, No.1, pp.81-102, 2002.
- [140] S. W. Chyuan, Dynamic analysis of solid propellant grains subjected to ignition pressurization loading, *J. Sound and Vibrations*, Vol.268, No.3, pp.465-483, 2003.
- [141] S. W. Chyuan, Numerical study of upstand value of gasket design for automotive cylinder structure, *Int. J. Comp. Numer. Anal. Appl.*, Vol.2, No.3, pp.351-359, 2002.
- [142] S. Mukherjee, Regularization of hypersingular boundary integral equations: a new approach for axisymmetric elasticity, *Engineering Analysis with Boundary Elements*, Vol.26, No.10, pp.839-844, 2002.
- [143] T. S. Koh and Z. Hou, A numerical method for estimating blood flow by dynamic functional imaging, *Medical Engineering and Physics*, Vol.24, No.2, pp.151-158, 2002.
- [144] A. B. Jorge, G. O. Ribeiro and T. S. Fisher, New approaches for error estimation and adaptivity for 2D potential boundary element methods, *Int. J. Numer. Meth. Engng*, Vol.56, pp.117-144, 2003.
- [145] W. Chen and Y. C. Hon, Numerical investigation on convergence of boundary knot method in the analysis of homogeneous Helmholtz, modified Helmholtz and convection-diffusion problems, *Comp. Meth. Appl. Mech. Engng.*, Vol.192, pp.1859-1875, 2003.
- [146] T. Rangelov, P. Dineva and D. Gross, A hypersingular traction boundary integral equation method for stress intensity factor computation in a finite cracked body, *Engineering Analysis with Boundary Elements*, Vol.27, pp.9-21, 2003.
- [147] Alkhaleefi A. M. and Ali A., An efficient multi-point support-motion random vibration analysis technique, *Computers and Structures*, Vol.80, No.22, pp.1689-1697, 2002.
- [148] E. J. Sapountzakis and V. G. Mokos, Warping shear stress in nonuniform torsion by BEM, *Comp. Mech.*, Vol.30, pp.131-142, 2003.
- [149] L. Martin, L. Elliott, P. J. Heggs, D. B. Ingham, D. Lesnic and X. Wen, An alternative iterative algorithm for the Cauchy problem associated to the Helmholtz equation, *Comp. Meth. Appl. Mech. Engrg.*, Vol.192, pp.709-722, 2003.
- [150] A. N. Guz and V. V. Zozulya, Elastodynamic unilateral contact problems with friction for bodies with cracks, *Int. Appl. Mech.*, Vol.38, No.8, pp.895-932, 2002.
- [151] J. R. Chang and R. F. Liu, A study on the direct and indirect Trefftz methods in the acoustic field, 第十五屆中國造船暨輪機工程研討會論文集，高雄，頁 320-324，2003.
- [152] M. Denda, C. Y. Wang and Y. K. Yong, 2-D time-harmonic BEM for solids of general anisotropy with application to eigenvalue problems, *J. Sound and Vibration*, Vol.261, pp.247-276, 2003.
- [153] W. T. Ang and H. Fan, A hypersingular boundary integral formulation for heat conduction across an imperfect interface, *Beteq 2003*, Granada, Spain, 2003.

- [154] Z. Y. Yan, K. C. Hung and H. Zheng, Solving the hypersingular boundary integral equation in three-dimensional acoustics using a regularization relationship, *J. Acoust. Soc. Am.*, Vol.113, No.5, pp.2674-2683, 2003.
- [155] J. F. Nye, Spurious internal fields in scattering by a cylinder, *J. Phys. A: Math. Gen.*, Vol.36, pp.4221-4237, 2003.
- [156] 徐明贖，具圓弧線束制圓形領域 Helmholtz 特徵值問題之研究，海洋大學河海工程研究所碩士論文，基隆，2003。
- [157] J. Englund and J. Helsing, 2003, Stress computations on perforated polygonal domains, *Engineering Analysis with Boundary Elements*, Vol.27, No.5, pp.533-546.
- [158] L. H. Yu, 2003, Method for solving the Laplace eigenvalue problems on doubly connected domains: a modified perturbation method, 全國計算數學研討會論文集，新竹中華大學。
- [159] L. H. Yu, 2004, Fundamental frequency of a membrane with a strip of small length, *ZAMP*, Vol.55, No.3, pp.539-544.
- [160] E. D. Koronaki, A. G. Boudouvis and I. G. Kevrekidis, 2003, Enabling stability analysis of tubular reactor models using PDE/PDAE integrators, *Computers and Chemical Engineering*, Vol.27, pp.951-964.
- [161] S. Marburg, 2003, Developments in structural-acoustic optimization for passive noise control, *Archives of Computational Methods in Engineering*, Vol.9, pp.291-370.
- [162] A. V. Phan, J. A. Napier, L. J. Gray and T. Kaplan, 2003, Symmetric-Galerkin BEM simulation of fracture with frictional contact, *Int. J. Numer. Meth. Engng.*, Vol.57, pp.835-851.
- [163] L. Martin, L. Elliott, P. J. Heggs, D. B. Ingham, D. Lesnic and X. Wen, 2003, Conjugate gradient-boundary element solution to the Cauchy problem for Helmholtz-type equations, *Computational Mechanics*, Vol.31, pp.367-377, 2003.
- [164] 林英傑，以基本解無網格數值法求解雙諧和方程式及薄板振動問題，台灣大學土木工程研究所碩士論文，台北，2003。
- [165] 王致善，圓拱承受支承運動之暫態反應，台灣大學土木工程研究所碩士論文，台北，1994。
- [166] 朱皖山，以解析與數值實驗探討積分方程解外域問題 CEIEF 方法，海洋大學河海工程研究所，基隆，1999。
- [167] 陳辜冠，遲滯阻尼構件系統識別，海洋大學河海工程研究所，基隆，1998。
- [168] 張仕祺，土石海堤滲透流之研究，海洋大學河海工程研究所，基隆，1999。
- [169] W. X. Yang and P. W. Tse, Development of an advanced noise reduction method for vibration analysis based on singular value decomposition, *NDT & E International*, Vol.36, No.6, pp.419-432, 2003.
- [170] 牛忠榮，周煥林與王秀喜，位勢問題中的自然邊界積分方程，*Global Chinese Workshop on Boundary Element and Meshless Methods*, China, 2003.
- [171] G. S. Liou, G. Z. Lai and C. C. Wang, 2003, Numerical time-domain BEM experiment for 2-D elastodynamics, *J. Chinese Institute of Engineers*, Vol.26, No.5, pp.597-605, 2003.
- [172] 黃志勇，流体結構動力互制問題之三維分析，台大應用力學研究所博士論文，1989。

- [173] J. Wang, S. L. Crouch and S. G. Mogilevskaya, A complex boundary integral method for multiple circular holes, *Engineering Analysis with Boundary Elements*, Vol.27, No.8, pp.671-684, 2003.
- [174] E. Pan and A. H.-D Cheng, Treatment of body forces in a single-domain boundary integral equation method for anisotropic elasticity, Chap.5, in *Transformation of domain effects to the boundary*, WIT Press, Southampton, Eds., Edited by Y. F. Rashed and C. A. Brebbia, 2003.
- [175] J. Anthonis and H. Ramon, Comparison between the discrete and finite element methods for modelling an agricultural spray boom — Part 2: Automatic procedure for transforming the equations of motion from force to displacement input and validation, *J. Sound and Vibration*, Vol.266, pp.535-552, 2003.
- [176] C. W. Chen, C. M. Fan, D. L. Young and K. Murugesan, Eigenanalysis of membranes with stringers using MFS and domain decomposition technique, *The 27th Conference on Theoretical and Applied Mechanics*, Tainan, 2003.
- [177] J. R. Chang and R. F. Liu, An asymmetric indirect Trefftz method for solving free vibration problems, *Journal of Sound and Vibration*, Vol.275, No.5, pp.991-1008, 2004.
- [178] Z. R. Niu and H. L. Zhou, The natural boundary integral equation in potential problems and regularization of the hypersingular integral, *Computers and Structures*, Vol.82, pp.315-323, 2004.
- [179] A.-V. Phan, J. A. L. Napier, L. J. Gray and T. Kaplan, Stress intensity factor analysis of friction sliding at discontinuity interfaces and junctions, *Computational Mechanics*, Vol.32, pp.392-400, 2003.
- [180] C. Zhang and A. Savaidis, 3-D transient dynamic crack analysis by a novel time-domain BEM, *Computer Modeling in Engineering and Sciences*, Vol.4, No.5, pp.603-618, 2003.
- [181] 周煥林，邊界元法中邊界層效應和薄體問題的研究，中國科學技術大學力學與機械工程學系博士論文，2003。
- [182] L. H. Yu, Approximations of the lowest eigenvalues of the negative Laplacian in two dimensions, NSC-90-2115-M-194-030, 2003.
- [183] L. H. Yu, Approximations of the lowest eigenvalues of the negative Laplacian on multiply connected domains, NSC-91-2115-M-194-009, 2002.
- [184] 黃志勇，邊界元素法數值積分法之誤差分析，中華技術學院慶祝改制週年論文發表會，南港，台北，2000。
- [185] H. A. Cho, M. A. Golberg, A. S. Muleshkov and X. Li, Trefftz methods for time dependent partial differential equations, *Computers, Materials and Continua*, Vol.1, No.1, pp.1-38, 2004.
- [186] S. W. Chyuan, Studies of Poisson's ratio for solid propellant grains under ignition pressure loading, *Int. J. Pressure Vessels and Piping*, Vol.80, pp.871-877, 2003.
- [187] 陳卓力，土石壩滲流工程性質之分析研究，海洋大學河海工程研究所，基隆，1998。
- [188] S. W. Chyuan, Numerical study of solid propellant grains subject to unsteady state thermal loading, *Int. J. Computer Applications in Technology*, Vol.24, No.2, pp.98-109, 2005.
- [189] S. W. Chyuan, Computational studies of variations in Poisson's ratio for thermoviscoelastic solid propellant grains, *J. Strain Analysis*, Vol.39, No.1, pp.117-126, 2004.

- [190] R. Vodicka and V. Mantic, On invertibility of elastic single-layer potential operator, *J. Elasticity*, Vol.74, pp.147-173, 2004.
- [191] L. Marin, D. Lesnic and V. Mantic, Treatment of singularities in Helmholtz-type equations using BEM, *J. Sound and Vibration*, Vol.278, pp.39-62, 2004.
- [192] G. B. Muravskii, On frequency-independent damping, *Journal of Sound and Vibration*, Vol.274, pp.653-668, 2004.
- [193] P. C. Hansen, The L-curve and its use in the numerical treatment of inverse problems, in *Computational inverse problems in electrocardiology*, pp.119-142, WIT Press, Southampton, 2001.
- [194] J. R. Chang, A study on the moving Trefftz method in acoustic problems, 第十六屆造船與輪機工程研討會，台南，2004。
- [195] 陳義麟，奇異值分解法在二維聲場之應用，第十六屆造船與輪機工程研討會，台南，2004。
- [196] D. L. Young, C. C. Tsai and C. M. Fan, Direct approach to solve nonhomogeneous diffusion problems using MFS and DRM, *J. Chinese Institute of Engineers*, Vol.27, No.4, pp.597-609, 2004.
- [197] L. Martin, L. Elliott, P. J. Heggs, D. B. Ingham, D. Lesnic and X. Wen, BEM solution for the Cauchy problem associated with Helmholtz-type equations by the Landweber method, *Engineering Analysis with Boundary Elements*, Vol.28, pp.1025-1034, 2004.
- [198] 蘇柏睿，一維柔性支撐與半主動控制摩擦振動行為的研究，海洋大學機械與機電工程研究所碩士論文，基隆，2004。
- [199] P. S. Dineva, G. D. Manolis and T. V. Rangelov, Transient seismic wave propagation in multilayered cracked geological region, *J. Sound and Vibration*, Vol.273, pp.1-32, 2004.
- [200] V. Koshelev and A. Ghassemi, Complex variable BEM for thermo- and poroelasticity, *Engineering Analysis with Boundary Elements*, Vol.28, No.7, pp.825-832, 2004.
- [201] T. Tsangaris, Y.-S. Smyrlis and A. Karageorghis, A matrix decomposition MFS algorithm for biharmonic problems in annular domains, *Computers, Materials and Continua*, Vol.1, No.3, pp.245-258, 2004.
- [202] L. Martin, L. Elliott, P. J. Heggs, D. B. Ingham, D. Lesnic and X. Wen, Comparison of regularization methods for solving the Cauchy problem associated with the Helmholtz equation, *Int. J. Numer. Meth. Engng.*, Vol.60, pp.1933-1947, 2004.
- [203] 陳義麟，無網格法於自由振動及外域聲場分析，國科會專題研究計劃 NSC 92-2611-E-022-004 成果報告，高雄海洋科技大學造船工程學系，2004。
- [204] 林裕袁，含徑向束制非均勻圓形薄膜的自由振動，海洋大學河海工程研究所碩士論文，基隆，2004。
- [205] X. Q. Yan, A special crack tip displacement discontinuity element, *Mechanics Research Communications*, Vol.31, No.6, pp.651-659, 2004.
- [206] 高瑞祥，螺槳引發之葉頻噪音理論預測——含船體散射之影響，海洋大學系統工程暨造船研究所博士論文，基隆，2004。
- [207] W. Chen, L. J. Shen, Z. J. Shen and G. W. Yuan, Boundary knot method for Poisson equations, *Engineering Analysis with Boundary Elements*, Vol.29, No.8, pp.756-760, 2005.

- [208] W. Chen, L. J. Shen, Z. J. Shen and G. X. Lv, Comparison of the RBF-based meshfree boundary knot and the boundary particle methods, Boundary knot method for Poisson equations, Submitted, 2004.
- [209] 葛家豪，邊界元素法對三維水沖擊問題之數值模擬，台灣大學造船與海洋工程研究所碩士論文，基隆，1991。
- [210] D. L. Young, K. H. Chen and C. W. Lee, Novel meshless method for solving the potential problems with arbitrary domain, J. Comp. Physics, Vol.209, pp.290-321, 2005.
- [211] 陳桂鴻，新型無網格法分別配合奇異值分解法與多重領域分割法兩種技巧分析求解含有束制條件薄膜特徵值問題，國科會九十三年度專題研究計劃，稻江管理學院資管系，2004。
- [212] S. W. Chyuan, Finite element simulation of thermal response for continuous welded rail system with direct fixation fastener, Int. J. Comp. Numer. Anal. Appl., Vol.3, No.1, pp.17-26, 2003.
- [213] S. W. Chyuan, Dynamic modeling and simulation for free fall structure of amusement park under wheel moving loads, Int. J. Comp. Numer. Anal. Appl., Vol.3, No.2, pp.193-206, 2003.
- [214] S. W. Chyuan, Computationally dynamic analysis for underground continuous welded rail system with direct fixation fastener, Int. J. Comp. Numer. Anal. Appl., Vol.4, No.4, pp.399-410, 2003.
- [215] K. C. Wu, A new boundary integral equation method for analysis of cracked linear elastic bodies, J. Chinese Institute of Engineers, Vol.27, No.6, pp.937-941, 2004.
- [216] L. Pyl, D. Clouteau and G. Degrande, A weakly singular boundary integral equation in elastodynamics for heterogeneous domains mitigating fictitious frequencies, Engineering Analysis with Boundary Elements, Vol.28, No.12, pp.1493-1513, 2004.
- [217] W. T. Ang and H. Fan, A hypersingular boundary integral method for quasi-static antiplane deformations of an elastic bimaterial with an imperfect and viscoelastic interfaces, Engineering Computations, Vol.21, No.5-6, pp.529-539, 2004.
- [218] C. C. Tsai, C. W. Chen, D. L. Young and C. M. Fan, Method of fundamental solution for Helmholtz problems in simply and multiply-connected domains, Proc. Royal Soc. London Ser. A, Vol.462, pp.1443-1466, 2006.
- [219] Z. R. Niu, W. L. Wendland, X. X. Wang and H. L. Zhou, A semi-analytical algorithm for the evaluation of the nearly singular integrals in three-dimensional boundary element methods, Comp. Meth. Appl. Mech. Engng., Vol.194, pp.1057-1074, 2005.
- [220] A. Tan, S. Hirose, Ch. Zhang and C. Y. Wang, A time-domain BEM for transient wave scattering analysis by a crack in anisotropic solids, Engineering Analysis with Boundary Elements, Vol.25, No.6, pp.610-623, 2005.
- [221] 蔡加正，無網格法於退化邊界問題應用，國科會九十三年度專題研究計劃，稻江管理學院資管系，2004。
- [222] 全湘偉，對偶邊界元素法與其在微機電暨電子元件上之分析模擬與應用；台大機械工程研究所博士論文，台北，2004。
- [223] S. Yu Reutskiy, The method of fundamental solutions for Helmholtz eigenvalue problems in simply and multiply connected domains, Engineering Analysis with Boundary Elements, Vol.30, No.3,

pp.150-159, 2006.

- [224] 陳桂鴻，新型無網格法分析潛堤對斜向入射波消波問題，國科會九十三年度專題研究計劃，稻江管理學院資管系，2004。
- [225] 陳義麟，以徑向基底函數配合奇異值分解法解含束條薄膜特徵值問題，國科會九十三年度專題研究計劃，高雄海洋科技大學造船系，2004。
- [226] A. Alia, M. Souli and F. Erchiqui, Variational boundary element acoustic modelling over mixed quadrilateral-triangle element, Communications in Numerical Methods in Engineering, Vol.22, pp.767-780, 2006.
- [227] 劉孟龍，邊界元素法分析二維矩形水槽承受水平及垂直振動之水沖擊行為，台灣大學造船及海洋工程研究所碩士論文，台北，2002。
- [228] 陳衍吉，含裂縫平板未知邊界曳引力的反算研究，成功大學造船暨船舶機械工程研究所碩士論文，台南，2000。
- [229] 邱家麟，以非奇異積分方程求解電磁場問題，台灣大學土木工程研究所碩士論文，台北，2002。
- [230] 陳國清，利用邊界元素法求解赫姆霍茲方程式中導管及散射問題之應用，台灣大學土木工程研究所碩士論文，台北，2002。
- [231] 陳昌毅，多域複合異材熱傳導之邊界元映像分析，逢甲大學機械工程研究所碩士論文，台中，2002。
- [232] 陳狄成，應用有限元素法於缺陷板材壓延加工之解析，國立中山大學機械與機電工程學系研究所博士論文，2002。(黃永茂教授)
- [233] 李坤昌，片段平滑邊界的彈力問題超強奇異邊界元素法，國立臺灣大學土木工程學研究所碩士論文，1994。(洪宏基教授)
- [234] 陳文益，以逆向方法估算非對稱積層板之材料性質及堆疊順序，國立台灣科技大學機械工程系碩士論文，2002。(廖崇禮教授)
- [235] 陳彥良，逆向方法以估算對稱積層板之材料性質及纖維方向與界面位置，國立台灣科技大學機械工程系碩士論文，2000。(廖崇禮教授)
- [236] 盧俊宏，二維半無限域 Lamb's 問題的級數解探討，國立海洋大學河海工程學系碩士論文，1999。(郭世榮教授)
- [237] 葉杰承，應用 PIV 研究透水結構物週遭穩態流場，國立海洋大學河海工程學系碩士論文，1999。(臧效義教授)
- [238] 歐豪逸，半平面含異質埋置物之波傳解析，國立成功大學土木工程學系碩士論文，1998。(宋見春教授, 劉紹文教授)
- [239] 林金文，微結構有限元素法與邊界元素法聯用之研究，國立台灣科技大學營建工程系碩士論文，1998。(張燕玲教授)
- [240] 呂鴻烈，非奇異性邊界積分方程式史托克斯流場之分析，國立臺灣大學土木工程學研究所碩士論文，1999。(楊德良教授, 黃維信教授)
- [241] 林宗賢，近岸透水結構物波動反應特性數值探討，國立海洋大學河海工程學系碩士論文，1999。(臧效義教授)
- [242] 陳育賢，空間邊界元素法與時間有限元素法於二維彈性動力問題之研究，中原大學土木工程學系

- 碩士論文，1999。(簡秋記教授)
- [243] 紀衍圻，雙分斫管共振器傳輸損失探討，逢甲大學機械工程學系碩士論文，2000。(朱智義教授)
- [244] 莊二龍，高效率感應電機之特性分析，國立成功大學電機工程學系碩士論文，2002。(王體教授)
- [245] 陳鴻川，沖床輻射噪音靈敏度分析，逢甲大學機械工程學系碩士論文，2000。(朱智義教授)
- [246] 謝榮凌，機車進氣系統噪音減量設計，逢甲大學機械工程學系碩士論文，2002。(朱智義教授)
- [247] 蕭宏欣，以有限元素分析溫度對電力擾動導致汽機葉片疲勞之影響，南台科技大學電機工程系碩士論文，2003。(秦純教授)
- [248] 劉宏仁，多管火箭最佳射序之研究，國立成功大學航空太空工程學系碩士論文，1998。(江達雲教授)
- [249] 顧有斐，微衛星 TUU SAT-1 主體結構的設計與分析，國立中央大學機械工程研究所碩士論文，1998。(洪祖昌教授)
- [250] 李建緯，分離式軸承殼破壞應力分析實驗及模態分析實驗，彰化師範大學工業教育學系碩士論文，1999。(吳孟軍教授)
- [251] 洪宗彬，疊層複合材料樑之有限元素分析，中國文化大學材料科學與製造研究所碩士論文，2000。(江毅成教授)
- [252] 林盈惠，薄板結構之有限元素分析研究-以篩選機為例，彰化師範大學機械工程學系碩士論文，2001。(王宜明教授)
- [253] 陳建和，TF-BGA 錫球接點熱應力和損壞機制之研究，國立成功大學工程科學系專班碩士論文，2001。(潘文峰教授)
- [254] 袁師武，牙齒矯正之有限元素法應力分析，國立台灣科技大學機械工程系碩士論文，2002。(曾垂拱教授)
- [255] 許惠娟，平版式複層空間桁架受垂直載重作用的彈塑性行為及最佳化設計之研究，朝陽科技大學建築及都市設計研究所碩士論文，2003。(鄭茂川教授)
- [256] 張成旭，平行軸錐形齒輪對設計模式之探討，國立中央大學機械工程研究所碩士論文，2002。(蔡錫錚教授)
- [257] L. Marin, Detection of cavities in Helmholtz-type equations using the boundary element method, *Computer Methods in Applied Mechanics and Engineering*, Vol.194, pp.4066-4023, 2005.
- [258] L. Marin and D. Lesnic, The method of fundamental solutions for the Cauchy problem associated with two-dimensional Helmholtz-type equations, *Computers and Structures*, Vol.83, No.4-5, pp.267-278, 2005.
- [259] Z. Y. Yan, F. S. Cui and K. C. Hung, Investigation on the normal derivative equation of Helmholtz integral equations in acoustics, *Computer Modeling in Engineering Science*, Vol.7, No.1, pp.97-106, 2005.
- [260] M. H. Hsu, Deflection analysis of electrostatic micro-actuators using the differential quadrature method, *J. Marine Science and Technology*, Accepted, 2005.
- [261] 王鄭翰，Singularity in BEM, 台大土木工程研究所博士論文，2005。(蔡丁貴教授指導)
- [262] I. L. Chen, Using using the methd of fundamental solutions in conjunction with degenerate kernel

- in cylindrical acoustic problems, *J. Chinese Institute of Engineers*, Vol.29, No.3, pp.445-457, 2006.
- [263] X. F. Pan, X. Zhang and M. W. Lu, Meshless Galerkin least square method, *Comp. Mech.*, Vol.35, No.3, pp.182-89, 2005.
- [264] W. Yeih, Study of the complete MRM for solving the Helmholtz equation of the exterior domain, NSC-88-2211-E019-009, 1998.
- [265] 鄧福勝, Moving Trefftz method for the Helmholtz method, 國立海洋大學河海工程學系碩士論文, 2001。(葉為忠教授)
- [266] W. Yeih, J. R. Chang, Y. C. Wu and F. S. Deng, Applications of the complete multiple reciprocity method for solving one-dimensional Helmholtz equation of a semi-infinite domain, 第五屆結構工程研討會, 2000.
- [267] D. L. Young, S. P. Su, C. W. Chen, C. M. Fan and K. Murugesun, Analysis of elliptical wave guides by the method of fundamental solutions, *Microwave and Optical Technology Letters*, Vol.44, No.6, pp.552-558, 2005.
- [268] 廖振程, 受側向力基樁分析方法的研究, 海洋大學河海工程研究所博士論文, 2005。(林三賢教授指導)
- [269] C. J. S. Alves and P. R. S. Antunes, The method of fundamental solutions applied to the calculation of eigenfrequencies and eigenmodes of 2D simply connected shapes, *Computers, Materials and Continua*, Vol.2, No.4, pp.251-266, 2005.
- [270] J. Wang and T. K. Tsay, Analytical evaluation and application of the singularities in boundary element method, *Engineering Analysis with Boundary Elements*, Vol.29, No.3, pp.241-256, 2005.
- [271] R. F. Liu, W. Yeih, S. R. Kuo and Y. W. Chen, Indirect T-Trefftz and F-Trefftz methods for solving boundary value problems of Poisson Equations, *J. Chinese Institute of Engineers*, Vol.29, No.6, pp.989-1006, 2006.
- [272] W. Chen, Z. J. Shen, L. J. Shen and G. W. Yuan, General solutions and fundamental solutions of varied orders to the vibrational thin, berger and the Winkler plates, *Engineering Analysis with Boundary Elements*, Vol.29, No.7, pp.699-702, 2005.
- [273] R. Vodicka and V. Mantic, On invertibility of boundary integral equation systems in linear elasticity, *Building Research Journal*, Vol.52, No.1, pp.1-17, 2004.
- [274] R. Vodicka and V. Mantic, On invertibility of boundary integral equation systems in linear elasticity, NCMCM 2003, Proceedings of the 9th International Conference on Numerical Methods in Continuum Mechanics, Zilina: Society of Science and Engineering, University of Zilina, 2003.
- [275] D. L. Young, C. C. Tsai, Y. C. Lin and C. S. Chen, The method of fundamental solutions and domain decomposition method for degenerate seepage flownet problems, *J. Chinese Institute of Engineers*, Vol.29, No.1, pp.63-73, 2005.
- [276] J. B. Forrester and J. H. Kalivas, Ridge regression optimization using a harmonious approach, *Journal of Chemometrics*, Vol.18 (7-8), pp.372-484, 2004.
- [277] Y. Liu, X. Zhang and M. W. Lu, A meshless method based on least-squares approach for steady- and unsteady-state heat conduction problems, *Numerical Heat Transfer Part B-Fundamentals*, Vol.47,

- No.3, pp.257-275, 2005.
- [278] A. Tan, S. Hirose, Ch. Zhang and C.-Y. Wang, A 2-D time-domain BEM for transient wave scattering analysis by a crack in anisotropic solids, *Engineering Analysis with Boundary Elements*, Vol.29, No.11, pp.1025-1038, 2005.
- [279] C. W. Chen, C. M. Fan, D. L. Young, K. Murugesan and C. C. Tsai, Eigenanalysis of membranes with stringers using the method of fundamental solutions and domain partition, *Computer Modelling in Engineering & Science*, Vol.8, No.1, pp.29-44, 2005.
- [280] L. P. C. P. F. Almeida and L. Palermo Jr., On the implementation of the two dimensional dual boundary element method for crack problems, *Advances in Boundary Element Techniques V*, pp.169-174, 2005.
- [281] 劉如峰，Trefftz 邊界元素法之劣化現象及對策，海洋大學河海工程研究所博士論文，基隆，2005。
- [282] 尹峰與馬杭，不規則邊界上的近似超奇異邊界積分方程，*飛機設計*第一期,pp.26-30, 2004.
- [283] 牛忠榮、王秀喜與王左輝，彈性理論幾類邊界積分方程之間的變換關係，*應用力學學報*,Vol.21, No.2, pp.55-60, 2004.
- [284] 牛忠榮、周煥林與王秀喜，位勢問題中的自然邊界積分方程，*燕山大學學報*,Vol.28, No.2, pp.122-124, 2004.
- [285] 方詩經、王建國與王秀喜，對偶邊界元素法對數奇異積分的計算，*機械強度*,Vol.24, No.2, pp.283-285, 2002.
- [286] 牛忠榮、王秀喜、周煥林與張晨利，彈性力學問題中一個新的邊界積分方程—自然邊界積分方程，*固体力學學報*,Vol.22, No.2, pp.111-119, 2001.
- [287] 牛忠榮、王秀喜、周煥林與張晨利，邊界元法計算近邊界點參量的一個通用算法，*力學學報*,Vol.33, No.2, pp.275-283, 2001.
- [288] 向宇與黃玉盈，複數矢徑虛擬邊界譜法在二維空穴聲輻射和散射問題中的應用，*固体力學學報*,Vol.25, No.2, pp.137-143, 2004.
- [289] 趙志高與黃其柏，複雜結構的聲輻射解耦及其聲輻射效率分析，*振動工程學報*,Vol.17, No.3, pp.326-331, 2004.
- [290] 趙志高與黃其柏，Helmholtz 聲學邊界積分方程中奇異積分的計算，*工程數學學報*,Vol.21, No.5, pp.779-784, 2004.
- [291] 陳正興與柯永彥，對稱葛勒金邊界元素法應用於三維靜力問題分析，台大土木研究所技術報告，2005。
- [292] 莊世璿，波浪正向入射複合式浪形薄板之研究，海洋大學河海工程研究所海工組報告，2005。（岳景雲博士指導）
- [293] L. Marin, A meshless method for the numerical solution of the Cauchy problem associated with three dimensional Helmholtz-type equations, *Appl. Math. Comput.*, Vol.165, pp.355-374, 2005.
- [294] X. Q. Yan, An efficient and accurate numerical method of stress intensity factors calculation of branched crack, *Transactions of the ASME, J. Appl. Mech.*, Vol.72, pp.330-340, 2005.
- [295] 夏育群與陳春生，邊界元素法入門介紹，高立圖書，台北，2004.

- [296] G. Muscolino, A. Palmeri and F. Ricciardelli, Time domain response of linear hysteretic systems to deterministic and random vibrations, *Earthquake Engineering and Structural Dynamics*, Vol.34, pp.1129-1147, 2005.
- [297] B. Chandrasekhar and S. M. Rao, Acoustic scattering from complex shaped three dimensional structures, *Computer Modelling in Engineering and Science*, Vol.8, No.2, pp.105-118, 2005.
- [298] C. J. S. Alves and P. R. S. Antunes, The method of fundamental solutions applied to the calculation of eigenfrequencies and eigenmodes of 3D simply connected shapes, *ECCOMAS Thematic Conference on Meshless Method*, C34.1-C34.6, Lisbon, 2005.
- [299] S. Yu Reutskiy, A new meshfree method for Helmholtz eigenvalue problems in simply and multiply connected domains, *ECCOMAS Thematic Conference on Meshless Method*, C32.1-C32.6, Lisbon, 2005.
- [300] Y. B. Wang and Y. Z. Sun, A new boundary integral equation method for cracked 2-D anisotropic bodies, *Engng. Fract. Mech.*, Vol.72, pp.2128-2143, 2005.
- [301] 李晟煒，含超強奇異性無網格法於靜電場及電磁波散射問題 (The applications of hypersingular meshless method for electrostatic and electromagnetic wave scattering), 國立台灣大學土木工程學系碩士論文，2005。(楊德良教授)
- [302] 吳炳承，超空化彈體之數值模擬，國立台灣海洋大學系統工程暨造船學系碩士論文，2005。(陳建宏與辛敬業教授)
- [303] S. Yu Reutskiy, The method of fundamental solutions for eigenvalue problems with Laplace and biharmonic operators, *Computer, Materials and Continua*, Accepted, 2005.
- [304] M. Willatzen, L. C. L. Y. Voon, Theory of acoustic eigenmodes in parabolic cylindrical enclosures, *J. Sound and Vibration*, Vol.286, pp.251-264, 2005.
- [305] C. Y. Dong and K. Y. Lee, Numerical analysis of doubly periodic array of cracks/rigid line inclusions in an infinite isotropic medium using the boundary integral equation method, *Int. J. Fracture*, Vol.133, pp.389-405, 2005.
- [306] 蔡加正與楊德良，基本解法於多連通薄版問題之振動分析，第十二屆全國計算流體力學學術研討會，高雄，2005。
- [307] 王傳輝，台灣地區鋼筋混凝土橋中性化效應之耐久性評估，土木與防災技術研究所，台北科技大學，2005。
- [308] 柯永彥與陳正興，對稱葛勒金邊界元素法應用於三維靜力問題分析，九十四年電子計算機於土木水利工程應用研討會，2005。
- [309] 姚忠達，雙鉸拱受水平地震作用之面內振動反應，九十四年電子計算機於土木水利工程應用研討會，2005。
- [310] C. J. S. Alves and P. R. S. Antunes, Numerical determination of eigenfrequencies and eigenmodes using the method of fundamental solutions *Proceedings of ICCES'04*, Madeira, Portugal, 2004.
- [311] C. J. S. Alves and P. R. S. Antunes, Numerical determination of the resonance frequencies in a bounded domain using the method of fundamental solutions *International Workshop on Meshless methods*, Portugal, 2003.

- [312] C. J. S. Alves and P. R. S. Antunes, Numerical determination of the resonance frequencies and eigenmodes using the method of fundamental solutions International Conference on Computational Methods, Singapore, 2004.
- [313] P. R. S. Antunes, Numerical calculation of eigenfrequencies and eigenmodes using the method of fundamental solutions Department of Mathematics, Institute Superior Technology, Portugal, 2004.
- [314] M. Dhanasekar and J. Han, Fracture analysis of internally cracked railheads, Int. J. Mech. Solids, Vol.1, No.1, pp.1-14, 2006.
- [315] I. Harrai, A survey of finite element methods for time-harmonic acoustics, Comp. Meth. Appl. Mech. Engng., in Press, 2005.
- [316] A. Tan, S. Hirose and Ch. Zhang, A time-domain collocation-Galerkin BEM for transient dynamic crack analysis BEM for transient wave scattering analysis by a crack in anisotropic solids, Engineering Analysis with Boundary Elements, Vol.29, pp.1025-1038, 2005.
- [317] S. Mukherjee, S. Telukunta and Y. X. Mukherjee, BEM modelling of damping forces on MEMS with thin plates, Engineering Analysis with Boundary Elements, Vol.29, No.11, pp.1000-1007, 2005.
- [318] 范佳銘, The method of fundamental solutions for advection-diffusion, Burger's and navier-Stokes equations, 國立臺灣大學土木工程學研究所博士論文, 2005。(楊德良教授)
- [319] A. Mohsen and M. Hesham, An efficient method for solving the nonuniqueness problem in acoustic scattering, Comm. Numer. Meth. Engng., Vol.22, pp.1067-1076, 2006.
- [320] 陳桂鴻, 新型無網格法分別配合奇異值分解法與多重領域分割法兩種技巧分析求解含有束制條件薄膜特徵值問題, NSC-94-2211-E-46-1-002, 國科會九十三年度專題研究計劃成果報告, 稻江管理學院資管系, 2005。
- [321] C. J. S. Alves and V. M. M. Leitao, Crack analysis using an enriched MFS domain decomposition technique, Engineering Analysis with Boundary Elements, Vol.30, No.3, pp.160-166, 2006.
- [322] V. M. M. Leitao, Torsion of cracked components using radial basis functions, Boundary Elements XXVII incorporating Electrical Engineers and Electromagnetics, Edited by A. Kassab, C. A. Brebbia and D. Poljak, WIT Press, 2005.
- [323] L. Marin, Numerical boundary identification for Helmholtz-type equations, Comp. Mech., Vol.39, No.1, pp.25-40, 2006.
- [324] Z. Elfelsoufi and L. Azrar, Buckling, flutter and vibration analysis of beams by integral equation formulations, Computers and Structures, Vol.83, pp.2632-2649, 2005.
- [325] B. Jin and W. Chen, Boundary knot method on geodesic distance for anisotropic problems, J. Comp. Physics, Vol.215, pp.614-629, 2006.
- [326] D. L. Young, K. H. Chen and C. W. Lee, Singular meshless method using double layer potentials for exterior acoustics, J. Acous. Soc. Amer., Vol.119, No.1, pp.96-109, 2006.
- [327] A. Rodriguez-Castellanos, F. Luzon and F. J. Sanchez-Sesma, Diffraction of seismic waves in an elastic, cracked half plane using boundary integral formulation, Soil Dynamics and Earthquake Engineering, Vol.25, pp.827-837, 2005.
- [328] P. Dangla, J. F. Semblat, H. H. Xiao, N. Delepine, A simple and efficient regularization method

- for 3D BEM-applications to frequency domain elastodynamics, BSSA, Vol.95, No.5, pp.1916-1927, 2005.
- [329] X. P. Chen, W. X. He and Banti Jin, Symmetric boundary knot method for membrane vibrations under mixed type boundary condition, Int. J. Nonlinear Sciences and Numerical Simulation, Vol.6, No.4, pp.421-424, 2005.
- [330] F. Garcia-Sanchez, A. Saez and J. Dominguez, Two-dimensional time-harmonic BEM for cracked anisotropic solids, Engineering Analysis with Boundary Elements, Vol.30, No.2, pp.88-99, 2006.
- [331] C. J.S Alves and P. R.S. Antunes, Numerical calculations of eigenfrequencies and eigenmodes of 3-D simply-connected domain using method of fundamental solutions, Proceeding of ICCES'05, 2005.
- [332] 張建仁, A study of the radiated fictitious resonant frequencies in the acoustic field generated by a buoy body, 國科會 NSC 89-2611-E-019-036 專題研究計劃成果報告。
- [333] 張建仁, 移動式 Trefftz 法在聲場問題之研究, 國科會 NSC 91-2611-E-019-016 專題研究計劃成果報告。
- [334] 張建仁, A study of direct and indirect Trefftz methods, in the acoustic fields, 國科會 NSC 90-2611-E-019-018 專題研究計劃成果報告。
- [335] R. Hovorka, M. J. Chappell, K. R. Godfrey, F. N. Madden, M. K. Rouse and P. A. Soons, CODE:A deconvolution program implementing a regularization method of deconvolution constrained to non-negative values. Description and pilot evaluation, Biopharmaceutics and Drug Disposition, Vol.19, No.1, pp.39-53, 1998.
- [336] H. B. Chen, J. F. Jin, P. Q. Zhang and P. Lu, Multi-variable nonsingular BEM for 2-D potential problems, Tsinghua Science and Technology, Vol.10, No.1, pp.43-50, 2005.
- [337] 張業輝, 智浩與呂峰, 結構多點隨機地震響應分析及擬靜位移計算, 計算力學學報, Vol.21, No.5, pp.564-570, 2004.
- [338] Y. B. Zhong, S. Shu and L. T. Guan, Adaptive orthonormal collocation method based on quintic spline-wavelets of two defects for differential equations, 中山大學學報, Vol.44, No.2, pp.23-26, 2005.
- [339] S. W. Gao, Y. S. Wang, Z. M. Zhang and X. R. Ma, Dual reciprocity boundary element method for flexural waves in thin plate with cutout, Appl. Math. and mechanics, Vol.26, No.12, pp.1564-1573, 2005.
- [340] 李子才, 2006, Boundary methods and effective condition numbers, 國科會 NSC 專題研究計劃計劃書。
- [341] 黎在良、王元溪與李廷芥, 斷裂力學中的邊界數值方法, 地震出版社, 1996.
- [342] Y.-S. Smyrlis and A. Karageorghis, The method of fundamental solutions for stationary heat conduction problems in rotationally symmetric domains, SIAM J. Scientific Computing, Vol.27, No.4, pp.1493-1512, 2006.
- [343] Z. S. Gu, T. X. Yang and Q. Xu, Applications of element-free method to water quality analysis of Miyun reservoir, Science in China Series D - Earth Sciences, Vol.48, pp.303-310, 2005.
- [344] P. Lazic, H. Stefancic and H. Abraham, The Robin-Hood method - a novel numerical method for electrostatic problems based on a non-local charge transfer, J. Comp. Physics, Vol.213, pp.117-140,

2006.

- [345] Y. Z. Sun, Z. Zhang, S. Kitipornchai and K. M. Liew, Analyzing the interaction between collinear interfacial cracks by an efficient boundary element-free method, *Int. J. Engng. Science*, Vol.44, pp.37-48, 2006.
- [346] 陳義麟、吳輝在與李應德, 無網格法於板的自由振動及外域聲場的分析, 第十八屆造船與輪機工程研討會, 基隆, 2006。
- [347] 施士雄等, Cauchy 已積分定理以及軸對稱結構的有限元素法分析, 第十八屆造船與輪機工程研討會, 基隆, 2006。
- [348] A. Tadeu, P. A. Mendes and J. Antonio, 3D elastic wave propagation modelling in the presence of 2D fluid-filled thin inclusions, *Engineering Analysis with Boundary Elements*, Vol.30, pp.176-193, 2006.
- [349] 柯永彥, 對稱葛勒金邊界元素法與有限元素法連結模式應用於三維靜力問題之分析, 台大土木工程研究所博士論文, 2006。
- [350] Z. C. Li, T. T. Lu and H. Y. Hu, Trefftz and collocation methods, *WIT*, 2006.
- [351] H. Chen and S. Mukherjee, Charge distribution on thin conducting nanotubes — reduced 3-D model, *Int. J. Numer. Meth. Engng.*, Vol.68, No.5, pp.503-524, 2006.
- [352] B. Veitch and J. Tuhkuri, Indentation contact and penetration of ice by a semicircular indenter, *Int. J. Offshore and Polar Engineering*, Vol.7, No.1, pp.16-21, 1997.
- [353] P. Yla-Oijala and S. Jarvenpaa, Iterative solution of higher-order boundary element method for acoustic impedance boundary value problems, *J. Sound and Vibration*, Vol.291, pp.824-843, 2006.
- [354] L. L. Thompson, A review of finite element methods for time-harmonic acoustics, *J. Acou. Soc. Amer*, Vol.119, No.3, pp.1315-1330, 2006.
- [355] J. Awrejcewicz and P. Olejnik, Analysis of dynamic systems with various friction laws, *Applied mechanics Review*, Vol.58, pp.389-410, 2005.
- [356] X. Yan, A numerical analysis of stress intensity factors at bifurcated cracks, *Engineering Failure Analysis*, Vol.13, pp.629-637, 2006.
- [357] V. V. Zozulya, Regularizations of divergent integrals I. General consideration, *Electronic Journal of Boundary Elements*, Vol.4, No.2, pp.49-57, 2006.
- [358] W. Dijkstra and R. M. M. Mattheij, The condition number of the BEM-matrix arising from Laplace's equation, *Electronic Journal of Boundary Elements*, Vol.4, No.2, pp.67-81, 2006.
- [359] C. S. Liu, Semi-analytical solution for elastic torsion bar with arbitrary shape of cross section, *Proceeding of Advances in Mechanics*, Keelung, 2006.
- [360] D. Samayoa M. Cervantes and A. G. Ayala, Criterio para determinar el tamaño de los elementos de frontera para calcular el factor de intensidad de esfuerzos, *Methods Numericos en ingenieria y ciencias aplicadas*, E ornate et al. edited, 2002.
- [361] M. Mazza and M. Aristodemo, Elementi finiti per elasticita piana derivati dalla discretizzazione and elementi di contorno di tipo simmetrico.
- [362] Changhao Yan , Wenjian Yu and Zeyi Wang, Application on the complete MRM for 3D impedance

- extraction with multiple frequency points, *Engineering Analysis with Boundary Elements*, Vol.30, pp.640-649, 2006.
- [363] D. L. Young, C. W. Chen, C. M. fan and C. C. Tsai, The method of fundamental solutions with eigenfunction expansion method for nonhomogeneous diffusion equation, *Numerical Methods for PDE*, Vol.22, No.5, pp.1173-1196, 2006.
- [364] Shiu-Ling Huang, Stability analysis of fundamental solution methods for Laplace's equations, Master Thesis, Institute of Applied Math., National Sun Yat-sen University, 2006.
- [365] Zan-You Yan, Treatment of sharp edges and corners in the acoustic boundary element method under Neumann boundary condition, *Computer Modelling in Engineering Science*, Vol.13, No.2, pp.81-90, 2006.
- [366] 黃其柏與趙志高， Helmholtz 方程的多頻計算，*聲學學報*, Vol.30, No.3, pp.255-263, 2005.
- [367] S. Gyftakis, P. Agouris and A. Stefanidis, Tracking deformable objects in geospatial applications, *Proceedings - International Conference on Image Processing*, Vol.4, pp.2579-2582, 2004.
- [368] C. J. S. Alves and P. R. S. Antunes, The method of fundamental solutions applied to the calculation of eigensolutions for simply connected plates, *ECCOMAS III European Conference on Computational Mechanics, Solids, Structure and Coupled Problems in Engineering*, C. A. Mota Soares et al. (eds.), Lisbon, Portugal, 2006.
- [369] C. S. Liu, A meshless regularized integral equation method (MRIEM) for Laplace equation in arbitrary interior or exterior plane domains, *Proceedings of ICCES'07*, pp.69-80, USA.
- [370] A. O. Adewale, Isotropic clamped-free thin annular circular plate subjected to a concentrated load, *ASME, J. Appl. Mech.*, Vol.73, No.4, pp.658-663, 2006.
- [371] C. S. Liu, A meshless regularized integral equation method (MRIEM) for Solving Laplace equation in the doubly-connected domain, *ICOME 2006*, Heifei, 2006.
- [372] 葉超雄與李洋傑，鋼結構實體模型之土壤與結構互制作用研究，國科會專題研究計劃 NSC 84-2611-P197-004 成果報告，宜蘭大學土木工程學系，1997。
- [373] 徐玉辰與萇宏，用於邊界元法的改進數值積分技術，*燕山大學學報*, Vol.28, No.2, pp.325-327, 2001.
- [374] L. J. Gray, A.-V. Phan, T. Kaplan and J. A. L. Napier, SGBEM simulation of friction sliding at discontinuity interfaces and junctions, *IABEM 2002*, UT Austin, 2002.
- [375] B. Jin and L. Marin, The method of fundamental solutions for inverse source problems associated with the steady-state heat conduction, *Int. J. Numer. Meth. Engng.*, Vol.69, No.8, pp.1570-1589, 2007.
- [376] 楊秉璋，Trefftz 方法求解修正後 Helmholtz 方程試式問題研究，海洋大學系統暨造船工程研究所碩士論文，基隆，2006。
- [377] X. F. Guo and H. B. Chen, Dual error indicators for the local boundary integral equation method in 2D potential problems, *Engineering Analysis with Boundary Elements*, Vol.30, pp.702-708, 2006.
- [378] K. M. Liew, Y. Z. Sun and S. Kitipornchai, Boundary element-free method for fracture analysis of 2-D anisotropic piezoelectric solids, *Int. J. Numer. Meth. Engng.*, Vol.69, pp.729-749, 2007.
- [379] Y. Huang, S. G. Mogilevskaya and S. L. Crouch, Semi-analytical solution for a viscoelastic plane

- containing multiple circular holes, *J. Mech. Mater. Solids*, Vol.1, No.3, pp.471-501, 2006.
- [380] A. Rodriguez-Castellanos, F. J. Sanchez-Sesma, F. Luzon and R. Martin, Multiple scattering of elastic waves by subsurface fractures and cavities, *Bulletin of the Seismological Society of America*, Vol.96, No.4, pp.1-16, 2006.
- [381] B. Veitch and J. Tuhkuri, Investigation of indentation contact and penetration of ice, M-198, Helsinki University of Technology, Faculty of Mechanical Engineering, Ship Laboratory, 1995.
- [382] J. Tuhkuri, Boundary element analysis of cracks under normal compressive stresses, M-197, Helsinki University of Technology, Faculty of Mechanical Engineering, Ship Laboratory, 1995.
- [383] J. Tuhkuri, Experimental investigations and computational fracture mechanics modelling of brittle ice fragmentation, *Acta Polytechnica Scandinavica*, Me 120 , Helsinki University of Technology, Faculty of Mechanical Engineering, Ship Laboratory, 1996.
- [384] A. Saez, F. Garcia-Sanchez and J. Dominguez, Hypersingular BEM for dynamic fracture in 2-D piezoelectric solids, *Comput. Methods Appl. Mech. Engrg*, Vol.196, pp.235-246, 2006.
- [385] Z. Elfelsoufi and L. Azrar, Integral equation formulation and analysis of the dynamic stability of damped beams subjected to subtangential follower forces, *Journal of Sound and Vibration*, Vol.296, pp.690-713, 2006.
- [386] 何易霖，以無網格正則積分方程方法計算任何形狀桿件的彈性扭轉問題，海洋大學機械與機電工程研究所碩士論文，基隆，2006。
- [387] S. Mukherjee, The boundary contour method, Chapter 11 in *Selected Topics in Boundary Integral Formulations for Solids and Fluids*, edited by V. Kompis, Springer-Verlag 2002.
- [388] S. Mukherjee, The boundary node method, Chapter 12 in *Selected Topics in Boundary Integral Formulations for Solids and Fluids*, edited by V. Kompis, Springer-Verlag 2002.
- [389] Y. J. Liu, Dual BIE approach for modeling Electrostatic MEMS problems with thin beams and accelerated by fast multipole method, *Engineering Analysis with Boundary Elements*, Vol.30, No.11, pp.940-948, 2006.
- [390] D. L. Young, C. C. Tsai, Y. C. Lin and C. S. Chen, 2006, The method of fundamental solutions for eigenfrequencies of plate vibration, *Computers, Materials and Continua*, Vol.4, No.1, pp.1-10.
- [391] K. H. Chen and J. H. Kao, A study on the eigenanalysis for membranes with stringers using novel meshless method in conjunction with SVD and multi-domain techniques, *The 8th National Conference on Structural Engineering*, Sun Moon Lake, Taiwan, 2006.
- [392] S. Mukhopadhyay and N. Majumdar, On the influence of uniform singularity distributions, *Math Physics/0603051*, Vol.1, No.21, 2006.
- [393] N. Majumdar and S. Mukhopadhyay, Computational of nearly exact 3D electrostatic field in gas ionization detectors, *Archives Physica/0604032*, Vol.1, No.5, 2006.
- [394] Y. Z. Chen and X. Y. Lin, Renewing of boundary integral equation for exterior problem of infinite plate with hole and inclusion, *J. Mech. Mater. Struc.*, Revised, 2006.
- [395] L. Martin, L. Elliott, P. J. Heggs, D. B. Ingham, D. Lesnic and X. Wen, Dual reciprocity boundary element method solution of the cauchy problem for Helmholtz-type equations with variable

- coefficients, *Journal of Sound and Vibration*, Vol.297, pp.89-105, 2006.
- [396] C. Q. Yan, W. J. Yu and Z. Y. Wang, Calculating frequency-dependent inductance of VLSI interconnect by complet MRM, *Proceedings of the 2006 conference on Asia South Pacific Design Automation*, Yokohama, Japan, 2006.
- [397] 嚴昌浩，邊界元方法提取三維 VLSI 頻變電感 (阻抗)，北京清華大學計算機科學與技術博士論文，2006。
- [398] R. K. Misra, K. Sandeep and A. Misra, Analysis of anisotropic plate using multiquadric radial basis function, *Engineering Analysis with Boundary Elements*, Vol.31, pp.28-34, 2007.
- [399] R. C. Batra, M. Porfiri and D. Spinello, Analysis of electrostatic MEMS using meshless local Petrov-Galerkin (MLPG) method, *Engineering Analysis with Boundary Elements*, Vol.30, No.11, pp.949-962, 2006.
- [400] C. W. Chen, The method of fundamental solutions for inverse and moving rigid body problems, 國立臺灣大學土木工程學研究所博士論文，2006。(楊德良教授指導)
- [401] S. Yu Reutskiy, The method of fundamental solutions for problems of free vibrations of plates, *Engineering Analysis with Boundary Elements*, Vol.31, No.1, pp.10-21, 2007.
- [402] H. Chen and S. Mukherjee, Modeling of the ground plane in electrostatic BEM analysis of MEMS and NEMS, *Engineering Analysis with Boundary Elements*, Vol.30, No.11, pp.910-924, 2006.
- [403] K. Suresh and M. Sinha, A 2-D model that accounts for 3-D fringing in MEMS devices, *Engineering Analysis with Boundary Elements*, Vol.30, No.11, pp.963-970, 2006.
- [404] A. Salvadori and L. J. Gray, Analytical integration and SIFs computation in 2D fracture mechanics, *Int. J. Numer. Meth. Engng.*, in Press, 2006.
- [405] C. C. tsai, D. L. Young and C. M. Fan, Method of fundamental solutions for plate vibration in multiply-connected domains, *J. Mechanics*, Vol.22, No.3, pp.235-245, 2006.
- [406] M. H. Hsu, Deflection analysis of electrostatic micro-actuators using the differential quadrature method, *Tamkang Journal of Science and Engineering*, Vol.9, No.2, pp.97-106, 2006.
- [407] P. Antunes and P. Freitas, New bounds for the principal Dirichlet eigenvalue of planar regions, *Experimental Mathematics*, Vol.15, No.3, pp.333-342, 2006.
- [408] Y. Li, Y. Liu and B. Teng, Porous effect parameter of thin permeable plates, *Coastal Engineering Journal*, Vol.48, No.4, pp.309-336, 2006.
- [409] J. D. Yau, Vibration of arch bridges due to moving loads and vertical ground motions, *J. Chinese Institute of Engineers*, Vol.29, No.6, pp.1017-1027, 2006.
- [410] M. Naffa, H. J. Al-Gahtani, RBF-based meshless method for large deflection of thin plates, *Engineering Analysis with Boundary Elements*, Vol.31, No.4, pp.311-317, 2007.
- [411] L. Shen and Y. J. Liu, An adaptive fast multiple boundary element method for three-dimensional acoustic wave problems based on the Burton-Miller formulation, *Comp. Mech.*, in Press, 2006.
- [412] E. Zieniuk and A. Boltuc, Bezier curve in the modeling of boundary geometry for 2D boundary problems defined by Helmholtz equation, *J. Comp. Acoustics*, Vol.14, No.3, pp.353-367, 2006.
- [413] W. T. Ang, Elastodynamic antiplane deformation of a bimaterial with an imperfect viscoelastic

- interface: A dual reciprocity hypersingular boundary integral solution, *Applied Mathematical Modelling*, Vol.31, pp.749-762, 2007.
- [414] C. X. Yu, G. X. Shen, Study on the surface fast multipole boundary element method based on spherical harmonic space — mathematical theory part, Vol.2, No.3, pp.581-591, 2006.
- [415] M. Hesham and M. A. El-Gamal, Neural network model for solving integral equation of acoustic scattering using wavelet basis, *Comm. Numer. Meth. Engng.*, in Press, 2006.
- [416] T. Y. Lin, K. H. Chen and D. L. Young, Hypersingular meshless method for solving the potential problems in three-dimensional arbitrary shapes, *The 30th National Conference on Theoretical and Applied Mechanics*, Changhua, Taiwan, 2006.
- [417] Y. Z. Chen, Z. X. Wang and X. Y. Lin, Numerical examination for degenerate scale problem for ellipse-shaped ring region in BIE, *Int. J. Numer. Meth. Engng.*, in Press, 2007.
- [418] J. Antonio, A. Tadeu and L. Godinho, Sound wave propagation modeling in a 3D absorbing acoustic dome using the method of fundamental solutions, *Proceedings of ICCES'07*, pp.831-836, USA.
- [419] W. Chen, A comparison of the RBF-based meshfree boundary knot and the boundary particle methods, *Proceedings of ICCES'07*, pp.913-924, USA.
- [420] C. J. S. Alves and P. R. S. Antunes, The method of fundamental solutions applied to the calculation of eigenfrequencies and eigenmodes of 2D simply connected shapes *Proceedings of ICCES'07*, pp.465-484, USA.
- [421] L. Marin, L. Elliott, P. J. Heggs, D. B. Ingham, D. Lesnic and X. Wen, Parameter identification in Helmholtz-type equations with a variable coefficient using a regularized DRBEM, *Inverse Problems in Science and Technology*, Vol.14, No.8, pp.837-858, 2006.
- [422] G. B. Muravskii, Linear models with nearly frequency independent complex stiffness leading to causal behaviour in time domain, *Earthquake Engineering and Structural Dynamics*, Vol.36, pp.13-33, 2007.
- [423] R. Y. S. Pak and J. C. Ashlock, Method of adaptive-gradient elements for computational mechanics, *Journal of Engineering Mechanics*, ASCE, Vol.133, No.1, pp.87-97, 2007.
- [424] C. S. Liu, Elastic torsion bar with arbitrary cross section using the Fredholm integral equations, *Computers, Materials and Continua*, Vol.5, No.1, pp.31-42, 2007.
- [425] A. S. Muleshkov and M. A. Golberg, Particular solutions of the multi-Helmholtz-type equation, *Engineering Analysis with Boundary Elements*, in Press, 2007.
- [426] Y. J. Liu and L. Shen, A dual BIE approach for large-scale modelling of 3-D electrostatic problems with the fast multipole boundary element method, *International Journal for Numerical Methods in Engineering*, in Press, 2007.
- [427] J. W. Lee and J. M. Lee, An improved mode superposition method applicable to a coupled structural-acoustic system with a multiple cavity, *Journal of Sound and Vibration*, Vol.301, pp.821-845, 2007.
- [428] G. Davi and A. Milazzo, An alternative BEM for fracture mechanics, *SDHM*, Vol.2, No.3, pp.177-182, 2006.

- [429] L. Comino, L. Marin and R. Gallego, An alternative iterative algorithm for the Cauchy problem in anisotropic elasticity, Engineering Analysis with Boundary Elements, in Press, 2007.
- [430] S. Y. Reutskiy, The method of fundamental solution for problems of free vibration and stability, MFS2007, Cyprus, 2007.
- [431] J. R. Chang, A study of the direct and indirect Trefftz method for solving problems of the modified Helmholtz equation, 第十九屆造船與輪機工程研討會，高雄，2007。
- [432] K. S. Kim and H. S. Lee, An incremental formulation for the prediction of two-dimensional fatigue crack growth with curved paths, International Journal for Numerical Methods in Engineering, in Press, 2007.
- [433] Y. C. Shiah and Y. S. Shih, Regularization of nearly singular integrals in the boundary element analysis for interior anisotropic thermal field near the boundary, Journal of Chinese Institute of Engineers, Vol.30, No.2, pp.219-230, 2007.
- [434] S. Y. Leu, Analytical and numerical investigation of strain-hardening viscoplastic thick-walled cylinders under internal pressure by using sequential limit analysis, Computer Methods in Applied Mechanics and Engineering, in Press, 2007.
- [435] Vinod K. G. Gopalakrishnan S and Ganguli R., Wave propagation characteristics of rotating uniform Euler-Bernoulli beams, CMES, Computer Modeling in Engineering & Science, Vol.16, No.3, pp.197-208, 2006.
- [436] H. G. Yu and M. C. Chen, Three dimensional analysis of arbitrary-shaped cracks in piezoelectric solids under shear loading, International Journal of Computational Methods, Vol3, No.3, pp.321-336, 2006.

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