

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 Computaional 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 soild 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 bimaterials, *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. D. 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. D. 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] L. C. Wrobel and M. H. Aliabadi, The boundary element method, 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.*, 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, 海洋大學機械與輪機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, Accepted, 2002.
- [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] Alkhalefi 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. F. Dong, 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] 徐明騰, 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, 2003, Fundamental frequency of a membrane with a strip of small length, *ZAMP*, submitted.
- [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.192, 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。