

Text book

- 陳正宗與洪宏基，邊界元素法，新世界出版社，台北，1992。

Plenary lectures

- J. T. Chen, H.-K. Hong, I. L. Chen and K. H. Chen, 2003, Nonuniqueness and its treatment in the boundary integral equations and boundary element methods, 2003 Computational Mathematics Conference, Hsin-chu, Taiwan.
- J. T. Chen, S. Y. Lin, L. W. Liu and G. H. Lin, 2003, BEM for multiply-connected eigenproblems, The 20th International Conference “Mathematical Methods in Mechanics of Solids and Constructions. Methods of Boundary Elements and Finite Elements, St. Petersburg, Russia.

Keynote lectures

- J. T. Chen, 1998, Recent development of dual BEM in acoustic problems, Fourth World Congress on Computational Mechanics, Keynote lecture, BuenosAires, Argentina.
- J. T. Chen, 2002, On the rank-deficiency problems in boundary integral formulation using the Fredholm alternative theorem and singular value decomposition technique, Fifth World Congress on Computational Mechanics, Keynote lecture, Vienna, Austria.
- J. T. Chen, S. Y. Lin, I. L. Chen and K. H. Chen, 2003, Spurious and true eigenequations for free vibration of plate using real-part BEM, International Conference on Computational & Experimental Engineering and Science, ICCES03, Corfu, Greece.
- J. T. Chen, M. H. Chang and Y. T. Lee, 2003, A new meshless method for eigenproblems using radial basis function, Global Chinese Workshop on Boundary Element and Meshless Methods, Qinhuangdao, China.

Invited lectures

- J. T. Chen and H.-K. Hong, 1996, Review of Dual Integral Representations with Emphasis on Hypersingularity and Divergent Series, Invited one-hour Lecture, Fifth International Colloquium on Numerical analysis, Plovdiv, Bulgaria.
- J. T. Chen, S. R. Lin and K. H. Chen, 2002, Degenerate scale for torsion problems with arbitrary cross sections using the dual BEM, Beteq 2002, Beijing, China.

Journal papers

- J. T. Chen, S. Y. Lin, I. L. Chen and Y. T. Lee, 2005, Mathematical analysis and numerical study for true and spurious eigenequations for vibration of plates using imaginary-part BEM, Submitted.
- J. T. Chen and C. S. Wu, 2005, Alternative derivations for the Poisson integral formula, Int. J. Math. Edu. Sci. Tech., Revised.
- K. H. Chen and J. T. Chen, 2005, Adaptive dual boundary element method for solving oblique incident wave passing a submerged breakwater, Computer Methods in Applied Mechanics and Engineering, Revised.
- J. T. Chen, C. S. Wu and K. H. Chen, 2005, A study of free terms for plate problems in the dual boundary integral equations, Engineering Analysis with Boundary Elements, Accepted.
- J. T. Chen, I. L. Chen and K. H. Chen, 2005, A unified formulation of spurious and fictitious frequencies by using singular value decomposition and Fredholm alternative theorem, J. Computational Acoustics, Accepted.
- J. T. Chen, C. S. Wu, Y. T. Lee and K. H. Chen, 2005, On the equivalence of the Trefftz method and method of fundamental solutions for Laplace and biharmonic equations, Comp. Math. Appl.,

Accepted.

- Y. S. Liao, S. W. Chyuan and J. T. Chen, 2005, Computational study of the effect of finger width and aspect ratios for the electrostatic levitating force of MEMS combdrive, *IEEE Journal of MEMS*, Vol.14, No.2.
- J. T. Chen, I. L. Chen and Y. T. Lee, 2005, Eigensolutions of multiply-connected membranes using method of fundamental solutions, *Engineering Analysis with Boundary Elements*, Vol.29, No.2, pp.166-174.
- J. T. Chen, S. R. Lin and K. H. Chen, 2005, Degenerate scale for Laplace equation using the dual BEM, *Int. J. Numer. Meth. Engng.*, Vol.62, No.2, pp.233-261. (SCI and EI)
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- J. T. Chen, L. W. Liu and S. W. Chyuan, 2004, Acoustic eigenanalysis of multiply-connected problems, *Comm. Num. Meth. Engng.*, Vol.20, pp.419-440. (SCI and EI)
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中華民國七十三年九月—九十四年三月

海大河工系陳正宗

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