

7

Referências Bibliográficas

- [1] Dumont, N. A., “The Variational Formulation of the Boundary Element Method”, *Boundary Elements Techniques: Applications in Fluid Flow and Computational Aspects*, Computational Mechanics Publications, Adlard and Sond Ltd., pag. 225-239, 1987.
- [2] Dumont, N. A., “The Hybrid Boundary Element Method”, *Boundary Elements IX*, vol. I: Mathematical and Computational Aspects, Computational Mechanics Publications, Springer Verlag, pag. 117-130, 1987.
- [3] Dumont, N. A., “O Método dos Elementos Híbridos de Contorno para Problemas de Estado Plano da Elastostática”, VIII Congresso Latino-Americano e Ibérico sobre Métodos Computacionais para Engenharia, vol. C, pag. 157-182, Rio de Janeiro, Brasil, 1987.
- [4] Dumont, N. A., “O Método dos Elementos Híbridos de Contorno: Uma Reformulação Variacionalmente Consistente”, IX Congresso Brasileiro de Engenharia Mecânica, vol. II, pag. 617-620, Florianópolis, Brasil, 1987.
- [5] Dumont, N. A., “The Hybrid Boundary Element Method in Elastostatics: Overview of the Theory and Examples”, *Boundary Elements X*, vol. I: Mathematical Computational and Aspects, Computational Mechanics Publications, Springer Verlag, pag 43-57, 1988.
- [6] Dumont, N. A., “The Hybrid Boundary Element Method: An Alliance Between Mechanical Consistence and Simplicity”, *Applied Mechanic Reviews*, Vol. 42, nº 11, parte 2, pp.S54-S63, 1989.
- [7] Reissner, E., “A Note on Variational Principles in Elasticity”, *Int. J. Solids Structures*, Vol. 1, pp. 93-95, 1965.
- [8] Pian, T.H.H. e Tong, P., “Basis of Finite Element Method for Solid Continua”, *International Journal for Numerical Methods Engineering*, Vol. 1, pp. 3-28, 1969.

- [9] Love, A.E.H., “A Treatise on the Mathematical Theory of Elasticity”, Dover, New York, 1944.
- [10] de Carvalho, M.T.M., “Implementações Computacionais do Método Híbrido dos Elementos de Contorno”, Dissertação de Mestrado, Departamento de Engenharia Civil, PUC-Rio, Rio de Janeiro, 1990.
- [11] Brebbia, C.A., Telles, J.C.F. e Wrobel, L.C., “Boundary Element Techniques”, Springer-Verlag, Berlin, 1984.
- [12] Dumont, N.A., “Matrizes Inversas Generalizadas e Análise Estrutural”, I Seminário COPPE de Matemática Aplicada a Engenharia, Rio de Janeiro, 1987.
- [13] Bem-Israel, A. e Greville, T.N.E., “Generalized Inverses: Theory and Applications”, Robert E. Krieger Publishing Company, New York, 1980.
- [14] Dumont, N. A. e de Carvalho, M.T.M., “Consideração das Forças de Massa no Método Híbrido dos Elementos de Contorno”, XI Congresso Íbero Latino Americano sobre Métodos Computacionais para Engenharia, Rio de Janeiro, 1990.
- [15] Dumont, N.A., ”Notas de Aula: Método Híbrido dos Elementos de Contorno”, Departamento de Engenharia Civil, PUC-Rio, Rio de Janeiro, 1996.
- [16] De Souza, R. M., ” O Método Híbrido dos Elementos de Contorno para a Análise Elastostática de Sólidos”, Dissertação de Mestrado, Departamento de Engenharia Civil, PUC-Rio, Rio de Janeiro, 1992.
- [17] De Oliveira, R.: “O Método Híbrido dos Elementos de Contorno para Problemas Dependentes do Tempo”, Tese de Doutorado, Departamento de Engenharia Civil, PUC-Rio, Rio de Janeiro, 1994.
- [18] Cossio, M. U. de la Q.: “Aplicação do Método Híbrido dos Elementos de Contorno a Problemas de Otimização”, Dissertação de Mestrado, Departamento de Engenharia Civil, PUC-Rio, Rio de Janeiro, 1998.
- [19] Lopes, A. A. de O.: “Aplicação do Método Híbrido dos Elementos de Contorno a Problemas da Mecânica Linear da Fratura”, Dissertação de Mestrado, Departamento de Engenharia Civil, PUC-Rio, Rio de Janeiro, 1998.

- [20] R. A. P. Chaves, Estudo do Método Híbrido dos Elementos de Contorno e Proposta de uma Formulação Simplificada, M.Sc. Dissertation, PUC-Rio , 1999
- [21] Dumont, N. A., Oliveira, 1997, The Exact Dynamic Formulation of the Hybrid Boundary Element Method, Proceedings XVIII CILAMCE, Vol I, pp 357-364, Brasília, Brazil
- [22] Dumont, N. A., Oliveira, R, 1999, From Frequency-Dependent Mass and Stiffness Matrices to the Dynamic Response of Elastic Systems, Sixth Pan American Congress of Applied Mechanics – PACAM VI and 8th International Conference on Dynamic Problems in Mechanics – DINAME 99, Vol 8, pp 1331-1334, Rio de Janeiro, Brazil
- [23] Dumont, N. A., Oliveira, R, 1998, On Exact and Approximate Dynamic Formulations of the Hybrid Boundary Element Method, Proceedings IABEM'98, pp 79-80, Paris, France
- [24] Dumont, N. A., Oliveira, R, 1999, On Exact and Approximate Frequency-Domain Formulations of the Hybrid Boundary Element Method, Proceedings EURODINAME'99, Guenzburg, Germany
- [25] Dumont, N. A., 1998, An Assessment of the Spectral Properties of the Matrix G used in the Boundary Element Methods, Computational Mechanics 22, pp 32-41
- [26] A. Sutradhar, G.H. Paulino, L.J. Gray. Transient heat conduction in homogeneous and non-homogeneous materials by the Laplace transform Galerkin boundary element method. Engng. Anal. Boundary Elems., **26**: 119-132.
- [27] E.M. Carrillo-Heian, R.D. Carpenter, G.H. Paulino, J.C. Gibeling, Z.A. Munir. Dense layered MoSi_2/SiC functionally graded composites formed by field activated synthesis. Journal of the American Ceramic Society, **84**: 962-968, 2001.
- [28] S. Suresh, A. Mortensen. Fundamentals of functionally graded materials, Institute of Materials, IOM Communications Ltd., London, 1998.
- [29] Y. Miyamoto, W.A. Kaysser, B.H. Rabin, A. Kawasaki, R.G. Ford. Functionally graded materials: design, processing and applications, Kluwer Academic Publ., Dordrecht, The Netherlands, 1999.

- [30] G.H. Paulino, Z.-H. Jin. Correspondence principle in viscoelastic functionally graded materials. *ASME Journal of Applied Mechanics*, **68**: 129-132, 2001.
- [31] Y.-S. Chan, G.H. Paulino, A.C. Fannjiang. The crack problem for nonhomogeneous materials under antiplane shear loading – A displacement based formulation. *Int. J. of Sol. Struct.*, **38**: 2989-3005, 2001.
- [32] L.J. Gray, T. Kaplan, J.D. Richardson, G.H. Paulino. Green's functions and boundary integrals analysis for exponentially graded materials: heat conduction. *ASME Journal of Applied Mechanics*, (in press), 2003.
- [33] N.A. Dumont, R. Oliveira. From Frequency-Dependent Mass and Stiffness Matrices to the Dynamic Response of Elastic Systems. *International Journal of Solids and Structures*, **38**, Issue 10-13, 1813-1830, 2001.
- [34] L. Gaul, M. Wagner, W. Wenzel, N.A. Dumont. On the treatment of acoustical problems with the hybrid boundary element method. *Int. J. of Sol. Struct.*, **38**: 1871-1888, 2001.
- [35] N.A. Dumont, R.A.P. Chaves, G.H. Paulino. Modeling of functionally graded material assemblages using the hybrid boundary element method. In S. Valliappan, N. Khalili, eds., *Computational Mechanics – New Frontiers for the New Millenium*, 1019-1024, Elsevier Science Ltd, 2001.
- [36] J.S. Przemieniecki. *Theory of matrix structural analysis*, Dover Publs., New York, 1968.
- [37] N.A. Dumont, R.A.P. Chaves. General time-dependent analysis with the frequency-domain hybrid boundary element method. *Computer Assisted Mechanics and Engineering Sciences (CAMES)*, Vol 10 pp 431-452, 2003
- [38] N.A. Dumont, R.A.P. Chaves, G.H. Paulino. The hybrid boundary element method applied to functionally graded materials. In C.A. Brebbia, A. Tadeu, V. Popov, eds., *Boundary Elements XXIV - Incorporating Meshless Solutions*, WIT Press, Southampton, 267-276, 2002.
- [39] N.A. Dumont, R.A.P. Chaves, G.H. Paulino. The hybrid boundary element method applied to problems of potential of functionally graded materials. Submitted *International Journal of Computational Engineering Science*, 2003.
- [40] N.A. Dumont, R. Oliveira. The Exact dynamic formulation of the hybrid boundary element method. In: *Proceedings XVIII CILAMCE – 18th Iberian*

- Latin American Congress on Computational Methods in Engineering, Vol I, 357-364, Brasília, Brazil, 1997
- [41] A.H.-D. Cheng. Darcy's flow with variable permeability: a boundary integral solution. *Water Resources Research*, 20: 980-984, 1984.
- [42] A.H.-D. Cheng. Heterogeneities in flows through porous media by the boundary element method. In C.A. Brebbia, ed., *Topics in Boundary Element Research, Volume 4 Applications in Geomechanics*, 129-144, Springer-Verlag, Berlin, 1987.
- [43] J. Bear. *Dynamics of fluids in porous media*, Elsevier, NewYork, 1972.
- [44] S.I. Georghitza. On the plane steady flow of water through inhomogeneous porous media. *Firs Symposium on the Fundamentals of Transport Phenomena in Porous Media*, Int. Ass. Hydraulics Research, Haifa, Israel, 1969.
- [45] J.C. Bruch, G. Zyvoloski. Transient two dimensional heat conduction problems solved by the finite element method. *Int. J. Numer. Meth. Engng.*, 8: 481-494, 1974.
- [46] N.A. Dumont, D.R.L. Nunes, R.A.P. Chaves. Analysis of General Transient Problems with the Hybrid Boundary Element Method, In: *Proceedings Third Joint Conference of Italian Group of Computational Mechanics and Ibero-Latin American Association of Computational Methods in Engineering*, 10 pp in CD, Giulianova, Itália, 2002.
- [47] N.A. Dumont, R.A.P. Chaves. Analysis of General Time-Dependent Problems with the Hybrid Boundary Element Method. Accepted BETECH 15 - 15th International Conference on Boundary Element Technology, Detroit, USA, 2003.
- [48] N.A. Dumont, R.A.P. Chaves. Simplified Hybrid Boundary Element Method Applied to General Time-Dependent Problems. In: S. Valliappan, N. Khalili, eds., *Computational Mechanics – New Frontiers for the New Millenium (Proceedings of the First Asian-Pacific Congress on Computational Mechanics, Sydney, Australia)*, 1009-1018, Elsevier Science Ltd, 2001.
- [49] Lopes, A. A. de O.: “Determinação de Fatores de Intensidade de Tensão Com o Método Híbrido dos Elementos de Contorno”, Tese de Doutorado, Departamento de Engenharia Civil, PUC-Rio, Rio de Janeiro, 2002.

- [50] N.A. Dumont. An Assessment of the Spectral Properties of the Matrix \mathbf{G} Used in the Boundary Element Methods. *Computational Mechanics*, **22**: Nr. 1, 32-41, 1998.
- [51] N.A. Dumont. Variationally-Based, Hybrid Boundary Element Methods”. *Computer Assisted Mechanics and Engineering Sciences (CAMES)* Vol 10 pp 407-430, 2003
- [52] M.L. Abell, J.P. Braselton. *Differential equations with MapleV*, AP Professional, New York, 1994.
- [53] Polubarinova-Kochina, P. Ya., 1962, *The Theory of Ground Water Movement*, translated by J. M. R. Dewiest, Princeton University Press, Princetoon.