

8. BIBLIOGRAFIA

- [1] Abdel-Akher A., Hartley G. A., Domain integration for plate bending analysis by the boundary element method, *Applied Numerical Method*, Vol. 5, pp. 23-28, 1989.
- [2] Altiero N. J., Sikarskie D. L., A boundary integral method applied to plates of arbitrary plane form, *Computers and Structures* No. 9, pp. 163-168, 1978.
- [3] Banerjee P.K., Butterfield R., Boundary element method in geomechanics, in *Finite Elements in Geomechanics*, Wiley, s. 529-570, London, 1977.
- [4] Bathe K.J., Chaudary A.B., A solution method for planar and axisymmetric contact problems, *International Journal of Numerical Method in Engineering*, 21, pp 65-88, 1985.
- [5] Beskos D. E., Dynamic analysis of plates by boundary elements, *Applied Mechanics Review*, Vol. 26., No. 7, pp. 213-236, 1999.
- [6] Beskos D. E., Dynamic inelastic structural analysis by boundary element methods, *Archeves of Computational Methods in Engineering*, Vol. 2, No. 3, pp. 55-87, 1995.
- [7] Bazine G., Gamby D. A., A new integral equations formulation for plate bending problems, *Advances in Boundary Element Method*, Pentech Press, London, 1978.
- [8] Brebbia C. A., Dominguez J., Boundary element methods for potential problems, *Applied Mathematical Modelling*, Vol. 1, s. 372-378, 1977.
- [9] Bu X.M., Yan Z.D., Bending problems of rectangular thin plate with free edges laid on tensionless Winkler foundation, *Appl. Math. Mech.*,10(5), pp 435-442, 1989.
- [10] Burczyński T., *Metoda elementów brzegowych w mechanice*, Wydawnictwo Naukowo-Techniczne, Warszawa, 1995.
- [11] Chang-jun Ch., Boundary integral equation and the boundary element method for buckling analysis of perforated plates, *Engineering Analysis with Boundary Elements*, No. 17, pp. 57-68, 1996.
- [12] Chucheepsakul S., Chinnaboon B., An alternative domain/boundary element technique for analysing plates on two-parameter elastic foundation, *Engineering Analysis with Boundary Elements*, No. 26, pp. 547-555, 2002.
- [13] Debbih M., Boundary element method versus finite element method for the stress analysis of plates in bending, MSc Thesis, Cranfield Institute of Technology, Bedford, 1987.
- [14] Debbih M., Boundary element stress analysis of thin and thick plates, PhD Thesis, Cranfield Institute of Technology, Bedford, 1989.

-
- [15] Fu Y., Price W. G., Interactions between a partially or totally immersed vibrating cantilever plate and the surrounding fluid, *Journal of Sound and Vibration*, Vol. 3, No. 118, pp. 495-513, 1987.
- [16] Ganowicz R., Wybrane zagadnienia teorii płyt Reissnera i teorii płyt trójwarstwowych, *Mechanika Teoretyczna i Stosowana*, 1966.
- [17] Gawroński W., Kruszewski J., Ostachowicz W., Tarnowski J., Wittbrodt E., *Metoda elementów skończonych w dynamicie konstrukcji*, Arkady, Warszawa, 1984.
- [18] Girkmann K., *Dźwigary powierzchniowe*, Arkady, Warszawa, 1957.
- [19] Guminiak M., Zastosowanie metody elementów brzegowych w analizie statyki płyt cienkich, *III Konferencja Naukowa Doktorantów Wydziałów Budownictwa*, Gliwice-Wisła, 21-22 listopada 2002, Zeszyty Naukowe Politechniki Śląskiej str. 223-232.
- [20] Guminiak M., Okupniak B. Sygulski R., Analysis of plate bending by boundary element method, *Proceedings of European Conference on Computational Mechanics ECCM-2001*, June 26-29 2001, Cracow, Poland, Book of Abstract pp. 176-177.
- [21] Guminiak M., Sygulski R., Analysis of plates on elastic foundation by boundary element method, *VII Konferencja Konstrukcje Powłokowe Teoria i Zastosowania*, Gdańsk-Jurata, 9-11 października 2002, Książka streszczeń, str. 103-104.
- [22] Guminiak M., Sygulski R., Vibrations of plates immersed in fluid by BEM, *Proceedings of 15th International Conference on Computer Methods in Mechanics CMM-2003*, 3-6 June 2003, Gliwice/Beskid Mountains, Poland, Book of short papers pp. 143-144.
- [23] Guminiak M., Sygulski R., Stateczność początkowa płyt cienkich w ujęciu metody elementów brzegowych, *X Sympozjum Stateczności Konstrukcji*, Zakopane, 8-12. września 2003.
- [24] Guminiak M., Sygulski R., Static analysis of plates on the unilateral foundation by BEM, *Proceedings of The 8th International Conference Modern Building Materials, Structures and Techniques*, May 19-21 2004.
- [25] Jaswon M. A., Maiti M., An integral equation formulation of plate bending problems, *J. Engng. Math.*, No. 2, pp. 83-93.
- [26] Jaswon M. A., Integral equations method in potential theory, *Proceedings Roy. Soc. Ser. A* Vol. 275, s. 23-32, 1963.
- [27] Jaswon M. A., Ponter A. R., An integral equation solution of the torsion problem, *Proceedings Roy. Soc. Ser. A* Vol. 273, s. 237-246, 1963.
- [28] Kamiński M., Stochastic second-order BEM perturbation formulation, *Engineering Analysis with Boundary Elements*, No. 23, pp. 123-129, 1999.
- [29] Kączkowski Z., *Płyty, obliczenia statyczne*, Warszawa, Arkady, Wydanie III, 2000.

-
- [30] Kellogg P. D., *Foundations of potential theory*, Dover, New York, 1953.
- [31] Kupradze B. D., *Metody potencjalna w teorii uprugosti*, Fizmatgiz, Moskwa, 1963.
- [32] Li H., Dempsey J.P., Unbonded contact of a square plate on a elastic half-space or a Winkler foundation, ASME, J. Appl. Mech., 55, pp 430-436, 1988.
- [33] Liang Ch, Liao, Ch., Tai Y., Lai W., The free vibration analysis of submerged cantilever plates, *Ocean Engineering*, No. 28, pp. 1225-1245, 2001.
- [34] Liu Y., Analysis of shell-like structures by the boundary element method based on 3-D elasticity: formulation and verification, *International Journal for Numerical Methods in Engineering*, Vol. 41, pp. 541-558, 1998.
- [35] Michlin S. G., *Mnogomiernyje singularnyje intyegraty i intyegralnyje urawnienia*, Fizmatgiz, Moskwa, 1963.
- [36] Montero de Espinosa F., Gallego-Juarez A., On the resonance frequencies of water-loaded circular plates, *Journal of Sound and Vibration*, Vol. 2, No. 94, pp. 217-222, 1984.
- [37] Nowacki W., *Dynamika budowli*, Arkady, Warszawa, 1961.
- [38] Okupniak B., Sygulski R., Non-singular BEM analysis of Reissner plates, *Proceedings of 15th International Conference on Computer Methods in Mechanics CMM-2003*, 3-6 June 2003, Gliwice/Beskidy Mountains, Poland, Book of short papers pp. 265-266.
- [39] Pawlak Z., Rakowski J., Fundamental solutions for infinite discrete strips, *Proceedings of the XIII Polish Conference on Computer Methods in Mechanics*, pp. 1061-1068, Poznań, 1997.
- [40] Pawlak Z., Rakowski J., Fundamental Solutions for infinite discrete beams on elastic foundations, *Fourth International Conference of Difference Equation and Applications-Extended abstracts*, Wydawnictwo Politechniki Poznańskiej, pp. 287-294, 1998.
- [41] Pawlak Z., Rakowski J., Fundamental Solutions for infinite discrete beams on elastic foundations, *Communications in Difference Equations, Proceedings of the Fourth International Conference on Differential Equation*, Gordon and Breach Science Publishers, pp. 301-309, 2000.
- [42] Pawlak Z., Rakowski J., Fundamental solutions for regular discrete slabs, *Zeitschrift für Angewandte Mathematik und Mechanik*, 77, pp. 261-262, 1997.
- [43] Pawlak Z., Rakowski J., Fundamental solutions for regular discrete slabs, *GAAM'96-Gesellschaft für Angewandte Mathematik und Mechanik*, pp. 114-115, Prague, 1996.
- [44] Pawlak Z., Rakowski J., Singular solutions for two-dimensional discrete systems by Difference Equation Method, *Proceedings of the Second International Conference on Difference Equations and Applications*, Veszprem-Hungary, p. 83, 1995.

-
- [45] Pawlak Z., Rakowski J., Wielentejczyk P., Fundamental solutions for static and dynamic problems of one-dimensional discrete systems, *Proceedings of the XII-th Polish Conference on Computer Methods in Mechanics*, Warszawa-Zegrze, pp. 267-268, 1995.
- [46] Pawlak Z., Rakowski J., Wielentejczyk P., Static and dynamics of infinite discrete strips, *GAAM'97-Gesellschaft für Angewandte Mathematic und Mechanik*, Regensburg, Germany, 1995.
- [47] Rashed Y. F., Aliabadi M. H., Brebbia C. A., Hypersingular boundary element formulation for Reissner plates, *International Journal of Solids Structures*, Vol. 35, No. 18, pp. 2229-2249, 1998.
- [48] Rashed Y. F., A coupled BEM-flexibility force method for bending analysis of internally supported plates, *International Journal for Numerical Method in Engineering*, No. 54, pp. 1431-1475, 2002.
- [49] Schleicher C., Müller K., *Schiefe Einfeldplatten*, Transpress VEB Verlag für Verkehrswesen, Berlin, 1962.
- [50] Shi G., Flexural vibration and buckling analysis of orthotropic plates by the boundary element method, *International Journal of Solids Structures*, Vol. 26, No. 12, pp. 1351-1370, 1990.
- [51] Stern M., A general boundary integral formulation for the numerical solution of plate bending problems, *International Journal of Solids and Structures*, No. 15, pp. 769-782, 1978.
- [52] Sygulski R., Application of curvilinear elements with internal collocation points to air-pneumatic structure interaction, *Engineering Analysis with Boundary Elements*, No. 15, pp. 37-42, 1995.
- [53] Sygulski R., Drgania własne siatek ciągnowych z uwzględnieniem masy otaczającego powietrza, *V Konferencja Metody Komputerowe w Mechanice Konstrukcji*, Wrocław, maj 1981.
- [54] Sygulski R., Drgania własne siatek ciągnowych z uwzględnieniem masy otaczającego powietrza, *Archiwum Inżynierii Lądowej*, tom XXIX nr 4, 1983.
- [55] Sygulski R., Obliczanie macierzy mas powietrza do analizy przekryć ciągnowych i membranowych, *Archiwum Inżynierii Lądowej*, tom XXXIX nr 1, 1988.
- [56] Symm G. T., Integral equation method in potential theory, II, *Proceedings Roy. Soc. Ser. A*, Vol. 275, s. 33-46.
- [57] Tanaka M., Matsumoto T., Shiozaki A., Application of boundary-domain element method to the free vibration problem of plate structures, *Computers and Structures*, Vol. 66, no. 6, pp. 725-735, 1998.

-
- [58] Timoshenko S., Woinowsky-Krieger S., *Teoria płyt i powłok*, Arkady, Warszawa, 1962.
- [59] Timoshenko S., Gere J. M., *Teoria stateczności sprężystej*, Arkady, Warszawa, 1962.
- [60] Wen P. H., Aliabadi M. H., Young A., A boundary element method for dynamic plate bending problems, *International Journal of Solids and Structures*, No. 37, pp. 5177-5188, 2000.
- [61] Woźnica K., *Drgania i zginanie prostokątnych płyt podpartych punktowo*, rozprawa doktorska, Politechnika Warszawska, Wydział Inżynierii Lądowej, 1978.
- [62] Xiao J. R., Boundary element analysis of unilateral supported Reissner plates on elastic foundations, *Computational Mechanics*, No. 27, pp. 1-10, 2001.
- [63] El-Zafrany A., Debbih M., Fadhil S., A modified Kirchhoff theory for boundary element bending analysis of thin plates, *International Journal of Solids Structures*, Vol. 31, No. 21, pp. 2885-2899, 1994.

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