

Literatura

- [1] Allman, D. J.: A compatible triangular element including vertex rotations for plane elasticity problems, *Computers & Structures*, 19, 1-8, 1984.
- [2] Allman, D. J.: A quadrilateral finite element including vertex rotations for plane elasticity problems, *Int. J. Num. Meth. Engng.*, 26, 717-739, 1988.
- [3] Bäcklund, J.: Finite Element Analysis of Nonlinear Structures. (doktorská disertační práce). Goteborg 1973.
- [4] Bathe, K. J., Dvorkin, E. N.: A Formulation of General Shell Elements - the Use of Mixed Interpolation of Tensorial Components, *Int. J. Num. Meth. in Engng.*, 22, 697-722, 1986.
- [5] Bathe, K. J., Dvorkin, E. N.: A four-node plate bending element based on Mindlin-Reissner plate theory and a mixed interpolation, *Int. J. Num. Meth. in Engng.*, 21, 367-3383, 1986.
- [6] Bathe, K. J., Wilson, E. L.: Large Eigenvalue Problems in Dynamic Analysis, *J. Engng. Mech. Div. ASCE*, 1972.
- [7] Bathe, K. J., Wilson, E. L.: Numerical Methods in Finite Element Analysis. Prentice-Hall, Englewood Cliffs, NJ. 1976.
- [8] Batoz, J. L., Bathe, K. J., Ho, L. W.: A Study of Three - Node Triangular Plate Bending Elements, *Int. J. Num. Meth. in Engng.*, 15, 1771-1812, 1986. 1980.
- [9] Bažant, Z. P. edit: Mathematical Modeling of Creep and Shrinkage of Concrete. John Wiley & Sons Ltd., 1988.

- [10] Bažant, Z., P., Cedolin, L.: Stability of Structures: Elastic, Inelastic, Fracture and Damage Theories. Oxford University Press, New York, Oxford 1991.
- [11] Bažant, Z. P., Lin, F. B.: Nonlocal Smeared Cracking Model for Concrete Fracture, J. Struct. Engng. (ASCE), 114 (11), (Sec. 3.10), 1988.
- [12] Bažant, Z. P., Wu, S. T.: Dirichlet Series Creep Function for Aging Concrete, J. Engng. Mech. Div., ASCE, 99 (EM2), 1973.
- [13] Bellini, P. X., Chulya, A.: An improved automatic incremental algorithm for the efficient solution of nonlinear finite element equations, Computers & Structures, 26, 99-110, 1987.
- [14] Belytschko, T., Fish, J., Engelmann, B. E.: A Finite Element with Embedded Localization Zones. In: Computer Methods in Applied Mechanics and Engineering 70, North-Holland, 1988.
- [15] Belytschko, T., Lasry, D.: Nonmonotonic Stress-Strain Laws: Bizzare Behavior and its Repercussions on Numerical Solutions. Transactions of the Sixth Army Conference on Applied Mathematics and Computing, ARD Report 89-1.
- [16] Belytschko, T., Lasry, D.: A fractal patch test, Int. J. Num. Meth. Engng., 26, 2199-2210, 1988.
- [17] Bergan, P. G., Felippa, C. A.: A triangular membrane element with rotational degrees of freedom, Comp. Methods Appl. Mech. Engng., 50, 25-69, 1985.
- [18] Bittnar, Z.: Metody numerické analýzy konstrukcí. ES ČVUT, Praha 1983.
- [19] Bittnar, Z., Řeřicha, P.: Metoda konečných prvků v dynamice konstrukcí. SNTL, Praha 1981.
- [20] Bittnarová, J.: Napjatost stěnových systémů a jejich interakce s podložím. Výzkumná zpráva, FSv ČVUT, Praha 1979.
- [21] Bittnarová, J., Šejnoha, J.: Pružnost, pevnost, plasticita II - příklady. ES ČVUT, Praha 1989.
- [22] Blažek, V., Muk, J., Šejnoha, J.: Metoda konečných prvků. ES ČVUT, Praha 1973.

- [23] Červenka, V., Eligehausen, R., Pukl, R.: SBETA, Computer Program for Nonlinear Finite Element Analysis of Reinforced Concrete Structures. Mitteilungen IWB, Stuttgart 1990/1.
- [24] Darwin, D., Pecknold, D. A. W.: Analysis od Cyclic Loading of Plane RIC Structures, Computers & Structures, 7, 137-147, 1977.
- [25] Děmidovič, B. P., Maron, J. A.: Základy numerické matematiky. SNTL, Praha 1966.
- [26] Dhatt, G.: Numerical analysis of thin shells by curved triangular elements based on discrete Kirchhoff hypothesis. Proc. ASCE, Symp. on Applications of FEM in Civil Engineering, Vanderbilt Univ., Nashville, Tenn., 13 - 14, 1969.
- [27] Eringen, A. C.: Nonlinear Theory of Continuous Media. McGraw-Hill, New York 1962.
- [28] Fadějev, D. K., Fadějevová, V. N.: Numerické metody lineární algebry. SNTL, Praha 1964.
- [29] Hanuška, A.: O teorii Westergaardovho vystuženého podložia, Stavebnícky časopis, 39, 2, 1989.
- [30] Hinton, E., Rock, T., Zienkiewicz, O. C.: A Note on Mass Lumping and Related Processes in the Finite Element Method, Int. J. Earthq. Engng. Sturct. Dyn., 4, 245-249, 1976.
- [31] Herrmann, L. R.: Finite Element Bending Analysis for Plates, J. Engng. Mech. Div. ASCE, EM5, 1967.
- [32] Huang, H. C.: Elastic and elasto-plastic analysis of shell structures using the assumed strain elements, Computers & Structures, 33, 327-335, 1989.
- [33] Hughes, T. J. R.: The Finite Element Method. Prentice-Hall, Englewood Cliffs, NJ. 1987.
- [34] Hughes, T. J. R., Brezzi, F.: On drilling degrees of freedom, Comp. Methods Appl. Mech. Engng., 72, 105-121, 1989.
- [35] Hughes, T. J. R., Tezduyar, T. E.: Finite elments based upon Mindlin plate theory with particular reference to the four-node bilinear isoparametric element, J. Appl. Mech. ASME, 46, 587-596, 1981.

- [36] Hurty, W., Rubinstein, M. F.: Dynamics of Structures. Prentice - Hall, Engelwood Cliffs, NJ. 1964.
- [37] Chen, H. C., Taylor, R. Z.: Solution of viscously damped linear systems using a set of load-dependent vectors, *Earthquake Engng. Struct. Dyn.*, 19, 653-665, 1990.
- [38] Chen, W. F.: Plasticity in Reinforced Concrete. McGraw-Hill, New York 1982.
- [39] Ibrahimbegovic, A., Chen, H. C., Taylor, L. R., Wilson, E. L.: Ritz method for dynamic analysis of large discrete linear systems with non-proportional damping, *Earthquake Engng. Struct. Dyn.*, 19, 877-889, 1990.
- [40] Ibrahimbegovic, A., Taylor, R. L., Wilson, E. L.: A robust membrane quadrilateral element with drilling degrees of freedom, *Int. J. Num. Meth. Engng.*, 30, 445-457, 1990.
- [41] Ibrahimbegovic, A., Wilson, E. L.: A methodology for dynamic analysis of linear structure-foundation systems with local non-linearities, *Earthquake Engng. Struct. Dyn.*, 19, 1197-1208, 1990.
- [42] Ibrahimbegovic, A., Wilson, E. L.: Thick shell and solid finite elements with independent rotation fields, *Int. J. Num. Meth. Engng.*, 31, 1393-1414, 1991.
- [43] Irons, B. M., Razzaque, A.: Experience with the patch test for convergence of finite element methods, In: *Mathematical Foundations of the Finite Element Method* (ed. A. K. Aziz), Academic Press, New York, 1982.
- [44] Irons, B. M.: Quadrature rules for brick based finite elements, *Int. J. Num. Meth. Engng.*, 3, 293-294, 1971.
- [45] Jennings, A.: *Matrix Computations for Engineers and Scientists*. John Wiley, London 1977.
- [46] Kafka, V.: *Inelastic Mezomechanics*. World Scientific Publishing Co Pte. Ltd., Volume 5, Singapore 1987.
- [47] Kohout, M., Bilek, Z., Hřebíček, J., Polcar, P.: Application of damage mechanics to numerical fracture simulation. *Acta Technica*, 34, 5, 1989.

- [48] Koiter, W. T.: On the stability of elastic equilibrium (engl. transl.). AFFDL 1970.
- [49] Kolář, V., Leitner, F., Zlámal, M., Ženíšek, A.: Výpočet plošných a prostorových konstrukcí metodou konečných prvků. SNTL, Praha 1972.
- [50] Krohn, R.: Berechnung statisch unbestimmter Fachwerkträger, Zeitschrift Arch. und Ing. Ver., Hannover 1984.
- [51] Kuklík, P.: Příspěvek k řešení vrstevnatého podloží, Pozemní stavby, 7, 1984.
- [52] MacNeal, R. H., Harder, R. L.: A refined four-noded membrane element with rotational degrees of freedom, Computers & Structures, 18, 75-84, 1988.
- [53] Marquis, D.: Modélisation et identification de l'écrouissage anisotrope des métaux. Thèse Université Paris, 1979.
- [54] Melosh, R. J.: Structural Engineering Analysis by Finite Elements. Prentice-Hall, London 1990.
- [55] Newmark, N. M.: A Method of Computation for Structural Dynamics, J. Engng. Mech. Div. ASCE, 85, 67 - 94, 1959.
- [56] Nour-Omid, B., Clough, R. W.: Dynamic analysis of structures using Lanczos coordinates, Earthquake Engng. Struct. Dyn., 12, 566-577, 1984.
- [57] Ondráček, E., Valentík, V.: Dynamical States in Complicated Bodies, Colloquium on Solid States Properties at High Loading Rates, Brno 1978.
- [58] Oñate, E., Suarez, B.: A unified approach for the analysis of bridges, plates and axisymmetric shells using the linear Mindlin strip elements, Computers & Structures, 17, 407-426, 1983. bibitem PARK Park, K. C.: A family of solution algorithms for nonlinear structural analysis based on the relaxation equations, Int. J. Num. Meth. Engng., 18, 1337-1347, 1982.
- [59] Parlett, B. N.: The Symmetric Eigenvalue Problem, Prentice-Hall, Englewood Cliffs, NJ. 1980.

- [60] Pian, T. H. H.: Finite Element Methods by Variational Principles with Relaxed Continuity Requirements. In: *Variational Methods in Engineering*, Vol.1, 3/1-3/24, Southampton University Press 1973.
- [61] Reissner, E.: A note on variational principles in elasticity, *Int. J. Solids Struct.*, 1, 93-95, 1965.
- [62] Rice, J. R.: The Localization of Plastic Deformation in Theoretical and Applied Mechanics. In: *14 th Congr. Theoret. Appl. Mech.*(ed. W. T. Koiter), North-Holland, Amsterdam 1977.
- [63] Řeřicha, P.: Skořepinový prvek pro nestacionární dynamické zatížení. *Zpráva SÚ ČVUT* 521/82, Praha 1982.
- [64] Řeřicha, P.: Účinky odstřelů na stavební konstrukce. Metodika, teorie a program pro výpočet. *Zpráva SÚ ČVUT* 314/75, Praha 1975.
- [65] Simon, H. D.: The Lanczos algorithm with partial reorthogonalization, *Math. Comput.* 42, 115-142, 1984.
- [66] Stolarski, H., Belytschko, T., Carpenter, N., Kennedy, J. M.: A Simple Triangular Curved Shell Element, *Eng. Comput.*, Vol. 1, September 1985.
- [67] Šejnoha, J.: Kmitání krabicových konstrukcí, *Stavebnícky časopis*, 6, 1970.
- [68] Šejnoha, J., Bittnarová J.: *Pružnost, pevnost, plasticita I.* ES ČVUT, Praha 1984.
- [69] Šejnoha, J., Bittnarová J.: *Pružnost, pevnost, plasticita II.* ES ČVUT, Praha 1989.
- [70] Šejnoha, J., Kufner, V.: *Pružnost, pevnost, plasticita III.* ES ČVUT, Praha 1990.
- [71] Taylor, R., Simo, J. C., Zienkiewicz, O. C., Chan, A.: The patch test - a condition for assessing FEM convergence, *Int. J. Num. Meth. Engng.*, 22, 39-62, 1986.
- [72] Turner, M. J., Clough, R. W., Martin, H.C., Topp, L. J.: Stiffness and Deflection Analysis of Complex Structures, *J. Aeronaut. Sci.*, 23, 1956.

- [73] Zemáňková, J.: Technická mechanika I (úvod do lomové mechaniky). ES ČVUT, Praha 1986.
- [74] Zienkiewicz, O. C.: The Finite Element Method in Engineering Science. McGraw-Hill, London 1971.