Bibliografia

[1] Al-Tabbaa, A., Permeability and stress-strain response of speswhite kaolin, *Ph.D. thesis*, University of Cambridge, 1987.

[2] Amorosi, A., Applicazione di un modello iperelastico alla interpretazione del comportamento meccanico di un'argilla consistente e sovraconsolidata, *Proc. G.N.C.S. Ing. Geotecnica C.N.R.*, 1996, 137-140.

[3] Argyris, J. H. and Doltsinis, J. St., On the large strain inelastic analysis in natural formulation- Part I: Quasistatic problems, *Comput. Methods Appl. Mech. Engrg.*, 20, 1979, 213-252.

[4] Armero, F. and Garikipati, K., Recent advances in the analysis and numerical simulation of strain localization in inelastic solids, *Proc. 4th Comp. Plast. Conf.*, April 1995, Barcelona.

[5] Armero, F. and Garikipati, K., An analysis of strong discontinuities in multiplicative finite strain plasticity and their relation with the numerical simulation of strain localization in solids, *Int. J. Solids Structures*, 33, 1996, 2863-2885.

[6] Asaro, R., Micromechanics of crystals and polycrystals, *Adv. Appl. Mech.*, 23, 1983, 1-115.

[7] Atkinson, J. H., and Bransby, P. L., *The mechanics of soils: an introduction to critical state soil mechanics*, London, McGraw Hill, 1978.

[8] Borja, R. I., Cam-clay plasticity, Part II: Implicit integration of constitutive equation based on a non-linear elastic stress predictor, *Comput. Methods Appl. Mech. Engrg.*, 88, 1991, 225-240.

[9] Borja, R. I. and Alarcòn, E., A mathematical framework for finite strain elastoplastic consolidation. Part 1: balance laws, variational formulation, and linearization, *Comput. Methods Appl. Mech. Engrg.*, 122, 1995, 145-171.

[10] Borja, R. I. and Lee, S. R., Cam-clay plasticity, Part I: Implicit integration of elasto-plastic constitutive relations, *Comput. Methods Appl. Mech. Engrg.*, 78, 1990, 49-72.

[11] Britto, A.M. and Gunn, M.J., *Critical state soil mechanics via finite elements*, Ellis Horwood, Chichester, 1987.

[12] Burland, J. B. and Potts, D. M., Development and application of a numerical model for the leaning tower of Pisa, *Proc. First Int. Conf. on Pre-failure Deformation Characteristics of Geomaterials*, Sapporo, Japan, 2, 1995, 715-738.

[13] Butterfield, R., A natural compression law for soils (an advance on $e - \log p'$), *Géotechnique*, 29, 1979, 469-480.

[14] Callari, C., Auricchio, F. and Sacco, E., A Return Map Algorithm for a Finite-strain Cam-clay Plasticity Model, *Joint Conf. of Italian Group of Comp. Mech. and Ibero-Latin American Association of Comp. Meth. in Eng.*, Padova, September 1996.

[15] Callari, C., Auricchio, F. and Sacco, E., Finite-element implementation of a finite-strain Cam-clay model, *5th Int. Conf. on Comp. Plas. (COMPLAS V)*, Barcelona, 1997.

[16] Callari, C., Auricchio, F. and Sacco, E., A fully-implicit integration technique for the finite element implementation of a finite-strain Cam-clay model, Research Report, Università di Roma Tor Vergata, 1997.

[17] C. Callari, F. Auricchio, and E. Sacco, A finite-strain Cam-clay model in the framework of multiplicative elasto-plasticity, *International Journal of Plasticity*, 14 (12), 1998, 1155-1187.

[18] Carter, J. P., Booker, J. R. and Small, J. C., The analysis of finite elasto-plastic consolidation, *Int. J. Numer. Anal. Meth. Geomech.*, 3, 1979, 107-129.

[19] Chadwick, P., *Continuum Mechanics*, John Wiley and Sons, New York, 1976

[20] Charrier, P., Dacorogna, B., Hanouzet, B. and Laborde, P., An existence theorem for slightly compressible material in nonlinear elasticity, *S.I.A.M. Math. Anal.*, 19, 1988, 70-86.

[21] Coleman, B. D. and Gurtin, M. E., Thermodynamics with internal state variables, *J. Chem. Phys.* 47, 1967, 597-613.

[22] Coulomb, C. A., Essai sur une application des règles de maxims et minims à quelques problèmes de statique, relatifs à l'architecture, *Mèm. Acad. R. Sci.*, 7, 1776, 343-382.

[23] Dafalias, J. F. and Herrmann, L. R., Bounding surface formulation of soil plasticity, *Soil Mechanics-Transient and Cyclic Loads* (Eds. G. N. Pande and O. C. Zienkiewicz), Wiley Chichester, 1982, 253-282.

[24] Davidson, C. S., The shear modulus of clays, Engineering Tripos, part II, group A, project report, Cambridge University, 1980.

[25] Derski, W., Izbicki, R., Kisiel, I. and Mróz, Z., *Rock and soil mechanics*, Elsevier, PWN, Warsaw, 1989.

[26] Drucker, D. C., Limit analysis of two and three dimensional soil mechanics problems, *J. Mech. Phys. Solids*, 1, 1953, 217-226.

[27] Drucker, D. C., Gibson, R. E. and Henkel, D. J., Soil mechanics and work-hardening theories of plasticity, *Trans. ASCE*, 122, 1957, 338-346.

[28] Drucker, D. C. and Prager, W., Soil mechanics and plastic analysis or limit design, *Quart. Appl. Math.*, 10, 1952, 157-165.

[29] Gens, A. and Potts, D. M., Critical state models in computational geomechanics, *Engrg. Comp.*, 5, 1988, 178-197.

[30] Gibson, R. E., England, G. L. and Hussey, M. J. L., The theory of one dimensional consolidation of saturated clays, I. Finite non-linear consolidation of thin homogeneous layers, *Géotechnique*, 17, 1967, 261-273.

[31] Green, A. E. and Naghdi, P., M., A general theory of an elastic-plastic continuum, *Arch. Rat. Mech. Anal.*, 18, 1965.

[32] Gurtin, M. E., *An introduction to Continuum Mechanics*, Academic Press, Orlando, Florida, 1981.

[33] Hashash, Y. M. A. and Whittle, A. J., Integration of the modified Cam-clay model in non-linear finite element analysis, *Computers and Geotechnics*, 14, 1992, 59-83.

[34] Hashiguchi, K., On the linear relations of $V - \ln p$ and $\ln v - \ln p$ for isotropic consolidation of soils, *Int. J. Numer. Analyt. Methods Geomechanics*, 19, 1995, 367-376.

[35] Hashiguchi, K., An expression of anisotropy in a plastic constitutive equation of soils, *Proc. 9th Int. Conf. SMFE, Specialty Session 9, Tokio*, 1977, 302-305.

[36] Hashiguchi, K. and Ueno, M., Elastoplastic constitutive laws of granular materials, *Proc. 9th Int. Conf. SMFE, Specialty Session 9, Tokio*, 1977, 73-82.

[37] Hill, R., *The Mathematical Theory of Plasticity*, Oxford University Press, Oxford, U.K., 1951.

[38] Houlsby, G. T., The use of a variable shear modulus in elastic-plastic models for clays, *Comput. Geotechn.*, 1, 1985, 3-13.

[39] Houlsby, G. T., Wroth, C. P. and Wood, D. M., Predictions of the results of laboratory tests on a clay using a critical state model, *Proc. Int. Workshop on Constitutive Behaviour of Soils*, Grenoble, Balkema, Rotterdam, 1982, 99-121.

[40] Hvorslev, M. J., *Physical properties of remoulded cohesive soils*, Vicksburg, US Army Engineer Waterways Experiment Station, translation, 1969.

[41] Koiter, W. T., General theorems for elastic-plastic solids, *Prog. in Solid Mech.*, 1, 1960, 167-221.

[42] Kolymbas, D., The outline of hypoplasticity, *Ing.-Arch.*, 61,1991, 143

[43] Lambe, T. W. and Whitman, R. V., *Soil Mechanics*, Wiley, New York, 1969.

[44] Lee, E. H., Elastic-plastic deformation at finite strains, *J. Appl. Mech.*, 36, 1969, 1-6.

[45] Lubliner, J., *Plasticity Theory*, Macmillan, New York, 1990.

[46] Lucchesi, M., Owen, D. R. and Podio-Guidugli, P., Materials with elastic range: A theory with a view toward applications. Part III: Approximate constitutive Relations, *Arch. Rational Mech. Anal.*,117, 1992, 53-96.

[47] Lucchesi, M. and Podio-Guidugli, P., Materials with elastic range: A theory with a view toward applications. Part I, *Arch. Rational Mech. Anal.*, 102, 1988, 23-43.

[48] Lucchesi, M. and Podio-Guidugli, P., Materials with elastic range: A theory with a view toward applications. Part II, *Arch. Rational Mech. Anal.*, 110, 1990, 9-42.

[49] Maier, G., A matrix structural theory of piecewise linear elasto-plasticity with interacting yield planes, *Meccanica*, 1970, 54-66.

[50] Mandel, J., Thermodynamics and plasticity, Foundations of Continuum Thermodynamics, Macmillan, London, 1974, 283-304.

[51] Marsden, J. E. and Hughes, T. J. R., *Mathematical Foundations of Elasticity*, Prentice Hall Englewood Cliffs, New Jersey, 1983.

[52] Meyerhof, G. G., The bearing capacity of foundations under eccentric and inclined loads. *3rd International Conference on Soil Mechanics and Foundation Engineering*, I, Zurich, 1953, 440-445.

[53] Mróz, Z., Norris, V. A. and Zienkiewicz, O. C., An anisotropic hardening model for soils and its application to cyclic loading, *Int. J. Numer. Analyt. Methods Geomechanics*, 2, 1978, 203-221.

[54] Naghdi, P., M. and Trapp, J. A., Restrictions on constitutive equations for finitely deformed elastic-plastic materials, *Quart. J. Mech. Appl. Math.* XXVIII, 1, 1975.

[55] Nagtegaal, J. C., On the implementation of inelastic constitutive equations with special reference to large deformation problems, *Comput. Methods Appl. Mech. Engrg.,* 33, 1982.

[56] Nova, R. and Hueckel, T., A unified approach to the modelling of liquefaction and cyclic mobility of sands, *Soils Foundat.*, 21, 1981, 13-28.

[57] Ogden, R. W., *Nonlinear elastic deformations*, Ellis Horwood, West Sussex, England, 1984.

[58] Ortiz, M. and Simo, J. C., An analysis of a new class of integration algorithms for elastoplastic constitutive relations, *Int. J. Numer. Methods Engrg.*, 23, 1986, 353-366.

[59] Ortiz, M., Leroy, Y. and Needleman, A., A finite element method for localized failure analysis, *Comput. Methods Appl. Mech. Engrg.*, 61, 1987, 189-214.

[60] Owen, D. R., Thermodynamics of materials with elastic range, *Arch. Rational Mech. Anal.*, 31, 1968, 91-112.

[61] Owen, D. R., A mechanical theory of materials with elastic range, *Arch. Rational Mech. Anal.*, 37, 1970, 85-110.

[62] Owen, D. R. and Hinton, E., *Finite Elements in Plasticity: Theory and Practice*, McGraw-Hill, New York, 1980

[63] Peric, Dj., Owen, D. R. and Honnor, M. E., A model for finite strain elasto-plasticity, *2nd Int. Conf. on Comp. Plas.*, Pineridge, Swansea, 111-126.

[64] Pinsky, P., Ortiz, M. and Pister, K. S., Numerical integration of rate constitutive equations in finite deformation analysis, *Comput. Methods Appl. Mech. Engrg.*, 40, 1983, 137-158.

[65] Podio-Guidugli, P. and Vergara Caffarelli, G., Extreme elastic deformations, *Arch. Rational Mech. Anal.* , 115, 1991, 311-328.

[66] Rankine, W. J. M., On the stability of loose earth, *Phil. Trans. R. Soc.*, 147, 1857, 9-27.

[67] Roscoe, K. H. and Burland, J. B., On the generalized stress-strain behaviour of 'wet' clay, *Engineering Plasticity*, Cambridge Univ. Press, 1968, 535-609.

[68] Roscoe, K. H. and Schofield, A. N., Mechanical behaviour of an idealized 'wet' clay, *Proc. 2nd Eur. Conf. SMFE*, Wiesbaden, 1, 1963, 47-54.

[69] Schofield, A. N. and Wroth, C. P., *Critical state soil mechanics.* McGraw-Hill, 1968.

[70] Sekiguchi, H. and Ohta, H., Induced anisotropy and time dependency in clays, *Proc. 9th Int. Conf. SMFE, Specialty Session 9, Tokio*, 1977, 163-175

[71] Shield, R. T., On Coulomb's law of failure in soils. *J. Mech. Phys. Solids,* 4(1), 1955, 10-16.

[72] Simo, J. C., On the computational significance of the intermediate configuration and hyperelastic stress relations in finite deformation elastoplasticity, *Mech. Mater.*, 1985, 439-451.

[73] Simo, J. C., A framework for finite strain elastoplasticity based on maximum plastic dissipation and multiplicative decomposition. Part I: Continuum formulation, *Comput. Methods Appl. Mech. Engrg.*, 66, 1988, 199-219.

[74] Simo, J. C., A framework for finite strain elastoplasticity based on maximum plastic dissipation and multiplicative decomposition. Part II: Computational aspects, *Comput. Methods Appl. Mech. Engrg.*, 68, 1988, 1-31.

[75] Simo, J. C., Algorithms for static and dynamic multiplicative plasticity that preserve the classical return mapping schemes of the infinitesimal theory, *Comput. Methods Appl. Mech. Engrg.*, 99, 1992, 61-112.

[76] Simo, J. C., Topics on the numerical analysis and simulation of plasticity. In P. G. Ciarlet and J. L. Lions, eds., *Handbook of numerical analysis*, Vol. 3, Elsevier Science Publisher, 1996.

[77] Simo, J. C., Oliver, J. and Armero, F., An analysis of strong discontinuities induced by strain-softening in rate-independent inelastic solids, *Computational Mechanics*, 12, 1993, 277-296.

[78] Simo, J. C. and Meschke, G., A new class of algorithms for classical plasticity extended to finite strains. Application to geomaterials, *Computational Mechanics*, 11, 1993, 253-278.

[79] Simo, J. C. and Ortiz, M., A unified approach to finite deformation elastoplastic analysis based on the use of hyperelastic constitutive equations, *Comput. Methods Appl. Mech. Engrg.*, 49, 1985, 221-245.

[80] Simo, J. C. and Pister, K. S., Remarks on rate constitutive equations for finite deformation problems: Computational implications, *Comput. Methods Appl. Mech. Engrg.*, 46, 1984, 201-215.

[81] Simo, J. C. and Taylor, R. L., Consistent tangent operators for rate-independent elastoplasticity, *Comput. Methods Appl. Mech. Engrg.*, 48, 1985, 101-118.

[82] Simo, J. C. and Taylor, R. L., Quasi-incompressible finite elasticity in principal stretches. Continuum basis and numerical algorithms, *Comput. Methods Appl. Mech. Engrg.*, 85, 1991, 273-310.

[83] Simo, J. C. and Taylor, R. L., A return mapping algorithm for plane stress elastoplasticity, *Int. J. Numer. Methods Engrg.*, 22, 1986, 649-670.

[84] Simpson, B., Finite elements applied to problems of plane strain deformation in soil, *Ph.D. thesis*, University of Cambridge, 1973.

[85] Tamagnini, C. and Borja, R.I., Cam-clay modificato: estensione alle grandi deformazioni, *Proc. G.N.C.S. Ing. Geotecnica C.N.R.*, 1996, 177-180.

[86] Taylor, D. W., *Fundamentals of soil mechanics*, New York, John Wiley and Sons, 1948.

[87] Terzaghi, K. V., Theoretical Soil Mechanics, John Wiley and Sons, New York, 1943.

[88] Truesdell, C. and Noll, W., *The non-linear field theories*, Handbuch der Physik, Band III/3, Springer, Berlin, 1965.

[89] Truesdell, C. and Toupin, R. A., *The classical field theories,* Handbuch der Physik, Band III/1, Springer, Berlin, 1960.

[90] Wroth, C. P., The predicted performance of soft clay under a trial embankment loading based on the Cam-clay model, *Finite Elements in Geomechanics*, John Wiley and Sons, London, 1975, 191-208.

[91] Wroth, C. P., and Houlsby, G. T., A critical state model for predicting the behaviour of clays, in *Workshop on Limit Equilibrium, Plasticity and Generalized Stress-strain in Geotechnical Engineering*, 1980, 592-627.

[92] Wroth, C. P., and Houlsby, G. T., Soil mechanics - property characterization and analysis procedures, *Proc. 11th Int. Conf. SMFE, San Francisco*, 1, 1985, 1-55.

[93] Wood, D. M., *Soil behaviour and critical state soil mechanics*, Cambridge University Press, 1990.

[94] Zienkiewicz, O. C. and Naylor, O. J., Finite element studies of soils and porous media, *Lect. Finite Elements in Continuum Mechanics*, UAH Press, 1973, 459-493.

[95] Zienkiewicz, O. C. and Taylor, R. L., *The finite element method*, McGraw Hill, New York, Vol. I, 1989, Vol II, 1991.

[96] Zytinsky, M., Randolph, M. K., Nova, R. and Wroth, C. P., On modelling the unloading-reloading behaviour of soils, *Int. J. Numer. Analyt. Methods Geomechanics*, 2, 1978, 87-93.