

## Riferimenti bibliografici

Abdullah Waddah S., Alshibli Khalid A., Al-Zou'bi Mohammed S. (1999), Influence of pore water chemistry on the swelling behaviour of compacted clays, *Applied Clay Science* 15, 447-462

Abdullah Waddah S., Al-Zou'bi Mohammed S., Alshibli Khalid A. (1997), On the physicochemical aspects of compacted clay compressibility, *Canadian Geotechnical Journal* 34, 551-559

Allman M.A., Atkinson J.H. (1992), Mechanical properties of reconstituted Bothkennar soil, *Géotechnique*, vol 42, nr 2, s 289-301

Amorosi A., Rampello S. (2007), Experimental investigation into the mechanical behaviour of a structured stiff clay, *Géotechnique*, vol 57, no 2, pp 153-166

Anandarajah A. (1997), Influence of Particle Orientation on One-Dimensional Compression of Montmorillonite, *Journal of Colloid and Interface Science* 194, 44-52

Anandarajah A. (2003), Mechanism Controlling Permeability Change in Clays due to Changes in Pore Fluid, *J. of Geotechnical and GeoEnvironmental Engineering ASCE* 29, No. 2, 163-172

Anandarajah A., Kuganenthira N., Zhao D. (1996), Variation of fabric anisotropy of kaolinite in triaxial loading, *J. of Geotechnical and GeoEnvironmental Engineering ASCE*, august, 633-640

Anandarajah A., Zhao D. (2000), Triaxial Behavior of Kaolinite in Different Pore Fluids, *J. of Geotechnical and GeoEnvironmental Engineering ASCE* 126, n. 2, 148-56

Anson R. W. W., Hawkins A. B. (1998), The effect of calcium ions in pore water on the residual shear strength of kaolinite and sodium montmorillonite, *Géotechnique* 48, No. 6, 787-800

Arroyo F. J., Carrique F., Jiménez-Olivares M. L., Delgado A. V. (2000), Rheological and Electrokinetic Properties of Sodium Montmorillonite Suspensions II. Low-Frequency Dielectric Dispersion, *Journal of Colloid and Interface Science*, 229, 118-12

Atkinson J.H., Richardson D., Stallebrass S.E. (1990), Effect of recent stress history on the the stiffness of overconsolidated soil, *Géotechnique*, vol 40, nr 4, 531-540

Baudet B. & Stallebrass S. (2004), A constitutive model for structured clays, *Géotechnique* 54, No. 4, 269–278

Benna M., Kbir-Arigoib N., Magnin A, Bergaya F. (1999), Effect of pH on Rheological Properties of Purified Sodium Bentonite Suspensions, *Journal of Colloid and Interface Science*, 218, 442-455

Bio Ag Technologies International (1999), Humic Acid Structure and Properties, *Bio Ag Technologies International*, 1-12

Bishop A.W. and Wesley L.D. (1975), A hydraulic triaxial apparatus for controlled stress path testing, *Géotechnique*, 25, No.4, pp.657-670

Bishop A.W., Webb D.L. and Lewin P.I. (1965), Undisturbed samples of London Clay from the Ashford Common shaft: strength-effective stress relationships, *Géotechnique*, 15, No.1, pp.1-3

Bjerrum L., Rosenqvist I. Th. (1956), Some experiments with artificially sedimented clays, *Géotechnique* 6, No. 3, 124-136

Bjerrum Laurits (1954), Geotechnical properties of Norwegian marine clays, *Géotechnique* 49, 4;2

Bjerrum Laurits, Stability of natural slopes in quick clay, *Géotechnique*

Blewett J., McCarter W.J., Chrisp T.M., Starrs G. (2003), An experimental study on ionic migration through saturated kaolin, *Engineering Geology*, 70, 281–291

Bo M.W., Choa V., Wong K.S. (2002), Compression tests on a slurry using a small-scale consolidometer, *Canadian Geotechnical Journal*, vol 39, no 2, pp 388-398

Bo M.W., Choa V., Wong K.S. and Teh C.I.(2002), Investigation on deformation behavior of high moisture content soil, *Soils and Foundations*, vol 42, no 2, pp 35-46

Bolt G. H. (1956), Physico-chemical analysis of the compressibility of pure clays, *Géotechnique* 6, No.2, 86-93

Bryant A.H. (1974), Transmission electron microscopy of clay structure, *Géotechnique* 24, No. 1, 39-44

- Burland J. B. (1990), On the compressibility and shear strength of natural clays, *Géotechnique* 40, No. 3, 329-378
- Burland J. B., Rampello S., Georgiannou V.N. and Calabresi G. (1996), A laboratory study of the strength of four stiff clays, *Géotechnique*, 46, No.3, pp.491-514
- Cafaro F., Cotecchia F. (2001), Structure degradation and changes in the mechanical behavior of a stiff clay due to weathering, *Géotechnique*, vol 51, no 5, pp 441-453
- Calvello Michele, Lasco Marilena, Vassallo Roberto, Di Maio Caterina (2004), Influenza della costante dielettrica del fluido interstiziale sulle proprietà intrinseche delle argille, *Incontro Annuale dei Ricercatori di Geotecnica 2004 - IARG 2004*, 1-4
- Chandler R.J. (1966), The measurement of residual strength in triaxial compression, *Géotechnique*, 16, No.3, pp.181-186
- Chandler R.J. (1968), A note on the measurement of strength in the triaxial compression tests, *Géotechnique*, 18, No.2, pp.261-266
- Chen J., Anandarajah A., Inyang H. (2000), Pore Fluid Properties and Compressibility of Kaolinite, *J. of Geotechnical and GeoEnvironmental Engineering ASCE*126, No. 9, 798–807
- Cione Ana P. P., Neumann Miguel G., Gessner Fergus (1998), Time-Dependent Spectrophotometric Study of the Interaction of Basic Dyes with Clays III. Mixed Dye Aggregates on SWy-1 and Laponite, *Journal of Colloid and Interface Science* 198, 106–112
- Cione Ana P. P., Schmitt Carla C., Neumann Miguel G., Gessner Fergus (2000), The Effect of Added Salt on the Aggregation of Clay Particles, *Journal of Colloid and Interface Science*, 226, 205–209
- Cotecchia F and Chandler R.J. (1997) The influence of structure on the prefailure behaviour of a natural clay *Géotechnique*, 47, No.3, pp.523-544
- Cotecchia F and Chandler R.J. (2000), A general framework for the mechanical behaviour of clay *Géotechnique*, 50, No.4, pp.431-447
- Cotecchia F., Cafaro F. & Aresta B. (2007), Structure and mechanical response of sub-Apennine Blue Clays in relation to their geological and recent loading history, *Géotechnique* 57, No. 2, 167–180

Cotecchia F., Chandler R. J. (1997), The influence of structure on the pre-failure behaviour of a natural clay, *Géotechnique* 47, No. 3, 523-544

Crooks V.E., Quigley R.M. (1984), Saline leachate migration through clay: a comparative laboratory and field investigation, *Canadian Geotechnical Journal*, vol 21, nr 2, s 349-362

Cuccovillo T. and Coop M.R. (1997), The measurements of local axial strains in triaxial tests using LVDTs. *Géotechnique*, 47, No. 1, pp.167-171

de Freitas, M. H. & Mannion, W. G. (2007), A biostratigraphy for the London Clay in London, *Géotechnique*, 57, No. 1, 91–99

Di Maio C. (1996), Exposure of bentonite to salt solution: osmotic and mechanical effects, *Géotechnique* 46, 4, 695-707

Di Maio C. (2001), Swelling pressure of clayey soils: the influence of stress state and pore liquid composition, *Rivista Italiana di Geotecnica XXXV*, No. 3, 22-34

Di Maio C., Fenelli G. B. (1994), Residual strength of kaolin and bentonite: the influence of their constituent pore fluid, *Géotechnique* 44, 4, 217-226

Di Maio C., Santoli L., Schiavone P. (2004), Volume change behaviour of clays: the influence of mineral composition, pore fluid composition and stress state, *Mechanics of Materials*, 36, 435-451

Di Maio, C. (1998), DISCUSSION Exposure of bentonite to salt solution: osmotic and mechanical effects, *Géotechnique* 48, No. 3, 433±436

Djéran-Maigre I., Tessier D., Grunberger D., Velde B., Vasseur G. (1998), Evolution of microstructures of macroscopic properties of some clays during experimental compaction, *Marine and Petroleum Geology*, 15, 109-128

Fearon R.E. and Coop M.R. (2000) Reconstitution-what makes an appropriate reference material? *Géotechnique*, 50, No.4, pp.471-477

Foged N., Baumann J. (1999), Clay membrane made of natural high plasticity clay: leachate migration due to advection and diffusion, *Engineering Geology*, Volume 54, Issues 1-2, Pages 129-137

- Gajo Alessandro, Loret Benjamin, Hueckel Tomasz (2002), Electro-chemo-mechanical couplings in saturated porous media: elastic–plastic behaviour of heteroionic expansive clays, *International Journal of Solids and Structures*, 39, 4327–4362
- Gasparre A. (2005), Advanced laboratory characterisation of London Clay, *PhD thesis to be submitted to Imperial College London*
- Gasparre, A., Nishimura, S., Coop, M. R. & Jardine, R. J. (2007), The influence of structure on the behaviour of London Clay, *Géotechnique* 57, No. 1, 19–31
- Graham J., Crooks J.H.A., Bell A.L. (1983), Time effects on the stress-strain behaviour of natural soft clays, *Géotechnique*, vol 33, nr 3, s 327-340
- Graham J., Lau S.L.K. (1988), Influence of stress-release disturbance, storage, and reconsolidation procedures on the shear behaviour of reconstituted underwater clay, *Géotechnique*, vol 38, nr 2, s 279-300
- Head, K.H. (1980), Manual of soil laboratory testing, 3Vols, London, Plymouth, Pentech Press
- Hight, DW (1982), Simple piezometer probe for the routine measurement of pore pressure in triaxial tests on saturated soils, Technical not., *Géotechnique*, vol 32, nr 4, s 396-401
- Imai G., Tsuruya K., Yano K. (1979), Treatment of salinity in water content determination of very soft clays, *Soils and Foundations*, vol 19, nr 3, s 84-89
- Jardine R.J., Symes M.J. and Burland J.B. (1984), The measurement of soil stiffness in the triaxial apparatus, *Géotechnique*, 34, No.3, pp.323-340
- Karakouzian Moses, Hudyma Nick (2002), A new apparatus for analog modeling of clay smears, *Journal of Structural Geology*, 24, 905-912
- Katagiri Masaaki, Imai Goro (1994), A new in laboratory method to make homogeneous clayey samples and their mechanical properties, *Soils and foundation*, 34, n.2, 87-93
- Keijzer Th.J.S., Kleingeld P.J., Loch J.P.G. (1999), Chemical osmosis in compacted clayey material and the prediction of water transport, *Engineering Geology*, 53, 151–159
- Kodikara J. - Anandarajah A. (2004), DISCUSSION and CLOSURE Mechanism Controlling Permeability Change in Clays due to Changes in Pore Fluid, *J. of Geotechnical and GeoEnvironmental Engineering ASCE*, 449-450

Kondo F, Kenneth Torrance J.K. (2005), Effects of smectite, salinity and water content on sedimentation and self-weight consolidation of thoroughly disturbed soft marine clay, *Paddy Water Environ*, 3, 155–164

Lagaly G., Ziesmer S. (2003), Colloid chemistry of clay minerals: the coagulation of montmorillonite dispersions, *Advances in Colloid and Interface Science*, 100 –102, 105–128

Lambe T.W. and Whitman R.V. (1969), *Soil Mechanics*, John Wiley & Sons Inc., New York

Leroueil S. , Kabbaj M., Tavenas F.,Bouchard R. (1985), Stress-strain-strain rate relation for the compressibility of sensitive natural clays, *Géotechnique*, 35, No. 2, 159-180

Leroueil S., Vaughan P. R. (1990), The general and congruent effects of structure in natural soils and weak rocks, *Géotechnique* 40, No. 3, 467-488

Leroueil S., Tavenas F. and Locat J. (1984), Discussion on: Correlations between index tests and the properties of remoulded clays- Carrier W.D. and Beckman J.F., 1984 *Géotechnique*, 35, No.2, pp.223-226

Loret Benjamin (2003), Electro-chemo-mechanical coupling phenomena in geomechanics and biomechanics, *Research activities 2001-2003, CURRENT and FUTURE DIRECTIONS*

Loret Benjamin, Hueckel Tomasz, Gajo Alessandro (2002), Chemo-mechanical coupling in saturated porous media: elastic–plastic behaviour of homoionic expansive clays International, *Journal of Solids and Structures*, 39, 2773–2806

LuckhamU Paul F., Rossi Sylvia (1999), The colloidal and rheological properties of bentonite suspensions, *Advances in Colloid and Interface Science*, 82, 43-92

M'bodj O., Kbir Ariguib N., Trabelsi Ayadi M., Magnin A. (2004), Plastic and elastic properties of the systems interstratified clay–water–electrolyte–xanthan, *Journal of Colloid and Interface Science*, 273, 675–684

Marcial D., Delage P., Cui Y.J. (2002), 1.On the high stress compression of bentonites, *Canadian Geotechnical Journal* 39, no. 4, 812-820

Mesri G., Ali S. (1999), Undrained shear strength of a glacial clay overconsolidated by desiccation *Géotechnique*, vol 49, no 2, pp 181-198

- Mitchell J. K. (1991), Conduction phenomena : from theory to geotechnical practice, *Géotechnique* 41, No. 3, 299-340
- Mojid M.A, Cho H. (2006), Estimating the fully developed diffuse double layer thickness from the bulk electrical conductivity in clay, *Applied Clay Science, Volume 33, Issues 3-4, Pages 278-286*
- Moore C.A., Mitchell J. K. (1974), Electromagnetic forces and soil strength, *Géotechnique* 24, No. 4, 627-640
- Moore R. (1991), The chemical and mineralogical controls upon the residual strength of pure and natural clays, *Géotechnique* 41, No. 1, 35-47
- Moore R. (1992), DISCUSSION The chemical and mineralogical controls upon the residual strength of pure and natural clays, *Géotechnique* 42, No. 1, 151-153
- Nagaraj T. S. - Chen J., Anandarajah A. (2002),DISCUSSION and CLOSURE Pore Fluid Properties and Compressibility of Kaolinite, *J. of Geotechnical and GeoEnvironmental Engineering ASCE*, 360-362
- Nash D.F.T., Sills G.C., Davison L.R. (1992), One-dimensional consolidation testing of soft clay from Bothkennar, *Géotechnique*, vol 42, nr 2, s 241-256
- Newson T.A., Davies M.C.R., Bondok A.R.A. (1997), Selecting the rate of loading for drained stress path triaxial tests, *Géotechnique*, vol 47, no 5, pp 1063-106
- Nishimura S. (2005), *Laboratory study on anisotropy of natural London Clay, PhD thesis to be submitted to Imperial College London*
- Nishimura, S., Minh, N. A. & Jardine, R. J. (2007), Shear strength anisotropy of natural London Clay, *Géotechnique*, 57, No. 1, 49-62
- Odiachi Jr. Paul C., Prieve Dennis C. (1999), Effect of added salt on the depletion attraction caused by non-adsorbing clay particles, *Colloids and Surfaces*, 315-328
- Pane V., Schiffman R.L. (1985), Note on sedimentation and consolidation - Technical note, *Géotechnique*, vol 35, nr 1, s 69-72
- Pane V., Schiffman R.L. (1997), Permeability of clay suspensions, *Géotechnique*, vol 47, no 2, pp 273-288

Peters Glen P., Smith David W. (2004), The influence of advective transport on coupled chemical and mechanical consolidation of clays, *Mechanics of Materials* , 36, 467–486

Picarelli L. & Olivares L., Di Maio C., Urciuoli G., Properties and behaviour of tectonized clay shales in Italy, *II International Symposium on Hard Soils and Soft Rocks, Napoli, Balkema, Rotterdam*, pp. 1211–1242

Polemio M., Romanazzi L. (1999), Numerical simulation of ground water protection works for an industrial waste dump, *Bull Eng Geol Env, Springer-Verlag*, 57 : 253–261 7

Prashant A., Penumadu D. (2005), Laboratory study of normally consolidated kaolin clay, *Canadian Geotechnical Journal*, vol 42, no 1, pp 27-37

Rampello S., Viggiani G.M.B., Amorosi A. (1997), Small-strain stiffness of reconstituted clay compressed along constant triaxial effective stress ratio paths, *Géotechnique*, vol 47, no 3, pp 475-489

Rao S.M., Shivananda P. (2005), Role of osmotic suction in swelling of salt-amended clays, *Canadian Geotechnical Journal*, vol 42, no 1, pp 307-315

Reidun Kleven, Jorolf Alstad (1996), Interaction of alkali, alkaline-earth and sulphate ions with clay minerals and sedimentary rocks, *Journal of Petroleum Science and Engineering* , 15, 181-200

Roland Pusch (2001), Experimental study of the effect of high porewater salinity on the physical properties of a natural smectitic clay, *Technical Report TR-01-07 Svensk Kärnbränslehantering AB, TR-01-07, 1-35*

Roscoe K.H., Schofield A.N., Wroth C.P. (1958), On the yielding of soils, *Géotechnique*, vol 8, no 1, pp 22-53

Sakairi N., Kobayashi M., Adachi Y. (2005), Effects of salt concentration on the yield stress of sodium montmorillonite suspension, *Journal of Colloid and Interface Science* 283, 245–250

Sawunyama Phillip, Jackson Mary, Bailey George W. (2001), Interactions of Methyl Orange with Cyclodextrin/Sodium-Montmorillonite Systems Probed by UV–Visible Spectroscopy, *Journal of Colloid and Interface Science*, 237, 153–157

Schiffman R.L., McArthur J.M., Gibson R.E. (1994), Consolidation of clay layer: hydrogeologic boundary conditions, *ASCE. Journal of Geotechnical Engineering*, vol 120, nr 6, s 1089-1093



Schmertmann J. H., Anandarajah A., Zhao D. (2001), DISCUSSION and CLOSURE Triaxial Behavior of Kaolinite in Different Pore Fluids, *J. of Geotechnical and GeoEnvironmental Engineering ASCE*, may

Schmertmann, J.H. (1969), Swell Sensitivity. *Géotechnique*, 19, No.41, pp.530-533

Schmitz R. M. (2006), Can the diffuse double layer theory describe changes in hydraulic conductivity of compacted clays?, *Geotechnical and Geological Engineering Volume: 24, Issue: 6*, pp. 1835-1844

Schmitz R. M., van Paassen L. A. (2003), The decay of the liquid limit of clays with increasing salt concentration, *Ingeokring Newsletter Vol. 9, No. 1*, 10-14

Schmitz R. M., Schroeder C., Charlier R. (2004), Chemo–mechanical interactions in clay: a correlation between clay mineralogy and Atterberg limits, *Applied Clay Science, Volume 26, Issues 1-4, Pages 351-358*

Sides G. and Barden L. (1970), The microstructure of dispersed and flocculated samples of kaolinite, illite and montmorillonite, *Canadian Geotechnical Journal*, 8, pp.391-399

Skempton A. (1954), Pore-pressure coefficients A and B, *Géotechnique*, vol 4, no 4, pp 143-147

Skempton A.W. and Northey R.D. (1952), The sensitivity of clays, *Géotechnique*, 3, No.1, pp.30-53

Smart P. and Tovey N.K., (1982), Electron microscopy of soils and sediments: examples, *Oxford University Press*, p.178

Smith P., Jardine R.J. and Hight D.W. (1992), The yielding of Bothkennar clay, *Géotechnique*, 42, No.2, pp.257-27

Sorensen K.K., Baudet B.A., Simpson B. (2007), Influence of structure on the time-dependent behaviour of a stiff sedimentary clay, *Géotechnique*, vol 57, no 1, pp 113-124

Squeglia Nunziante, Struttura del doppio strato e fenomeni elettrocinetici, *Incontro Annuale dei Ricercatori di Geotecnica 2004 - IARG 2004*, 1-4

Sridharan A., Prakash K. (1999), Influence of clay mineralogy and pore-medium chemistry on clay sediment formation, *Canadian Geotechnical Journal*, vol 36, no 5, pp 961-966

Sridharan A., Rao S. M., Gajarajan V. S. (1987), Influence of fluoride on the compressibility of montmorillonites, *Géotechnique* 37, No. 2, 197-206

Sridharan A., Rao S. M., Murthy N. S. (1986), Compressibility behaviour of homoionized bentonites, *Géotechnique* 36, No. 4, 551-564

Sridharan A., Ventakappa Rao G. (1973), Mechanisms controlling volume change of saturated clays and the role of the effective stress concept, *Géotechnique* 23, No. 3, 359–382

Suzuki S., Prayongphan S., Ichikawa Y., Chae B.(2005), In situ observations of the swelling of bentonite aggregates in NaCl solution, *Applied Clay Science, Volume 29, Issue 2, Pages 89-98*

Tavenas F.,des Rosiers J.-P., Leroueil S.,La Rochelle P. and Roy M. (1979), The use of strain energy as a yield and creep criterion for lightly overconsolidated clays, *Géotechnique* 29, No. 3, 285-303

Taylor, A.W. (1959), Physico-chemical properties of soils — Ion exchange phenomena, *Journal of Soil Mechanics and Foundation Division ASCE*, 85, 19–30

Tombácz E., Szekeres M. (2006), Surface charge heterogeneity of kaolinite in aqueous suspension in comparison with montmorillonite, *Applied Clay Science, Volume 34, Issues 1-4, Pages 105-124*

Tovey N. Keith, Dadey Kathleen A. (2002), Quantitative orientation and micro-porosity analysis of recent marine sediment microfabric, *Quaternary International*, 92, 89–100

Tovey N. Keith, Yim Wyss W.- S. (2002), Desiccation of Late Quaternary inner shelf sediments: microfabric observations, *Quaternary International*, 92, 73–87

U. S. Geological Survey Open-File Report 01-041, A Laboratory Manual for X-Ray Powder Diffraction

Van Paassen Leon A., Gareau Laurent F., Effect of pore fluid salinity on compressive behaviour of marine clays, *Engineering Geological Methods; modelling of soil and rock behaviour*

Velde B. (1996), Compaction trends of clay-rich deep sea sediments, *Marine Geology*, 193-201

Wen B.P., Aydin A. (2003), Microstructural study of a natural slip zone: quantification and deformation history, *Engineering Geology*, 68, 289–317

Wissa A.E.Z., Christian J.T., Davis E.H., Heiberg S. (1971), Consolidation at constant rate of strain, ASCE. *Soil Mechanics and Foundations Division. Journal*, vol 97, no SM10, pp 1393-1413

Wong R.C.K. (1998), Swelling and softening behaviour of La Biche shale, *Can. J. Geotech./Rev. Can. Geotech.*, 35(2), 206-221

Yin J.H. (1999), Non-linear creep of soils in oedometer tests, *Géotechnique*, vol 49, no 5, pp 699-707

