

**Referências bibliográficas**

Acar, Y.B., Alshawbkeh, A.N. and Gale, R.J. **Removal of cadmium (II) from saturated kaolinite by the application of electrical current.** Géotechnique, 1994. Vol. 44, N<sup>o</sup>. 2, p. 239-254.

Acar, Y.B., Rabbi M.F., Ozsu E.E. **Electrokinetics injection of ammonium and sulfates ions into sand and kaolinite beds.** Journal of Geotech. and Geoenvironmental Eng., ASCE, march/1997. p. 239-249.

Acar, Y.B., Alshawabkeh, A.N. & Gale, R. J. **Fundamentals of Extrating Species from Soils by electrokinetics.** Waste Management, 1993. Vol. 13, p. 141-151.

Acar, Y. B. and Alshawabkeh, A. N. **Electrokinetic Remediation: I. Pilot-Scale Tests with Lead Spiked Kaolinite.** ASCE, Journal of Geotechnical Engineering, 1996. Vol. 122, N<sup>o</sup>. 3, p.173-185.

Acar, Y.B., Rabbi. M.F. and Ozsu, E.E. **Electrokinetic injection of ammonium and sulfate ions into sand and kaolinite beds.** Journal of Geotechnical and Geoenvironmental Engineering, 1997. Vol. 123, N<sup>o</sup>. 3, p. 239-249.

Acar, Y. B., Gale, R. J, Hamed, J., Putnam, G. A., and Wong, R. L. **Electrochemical processing of soils: theory of pH gradient development by diffusion, migration, and linear convection.** Environmental Science Health A25, 1990. Vol. 6, p. 687–714.

Acar, Y. B. and Alshawabkeh, A. N. **Modeling Transport of Species Under an Electric Field.** Proceedings of the XIII. International Conference on Soil Mechanics and Foundation Engineering, New Delhi, India: January 1994. Vol. 2, p. 662-669.

Acar, Y. B. and Alshawabkeh, A. N. **Principles of Electrokinetic Remediation.** Environmental Science and Technology, Feature Article, 1993. Vol. 27, N<sup>o</sup>. 3, p. 2638 - 2647.

Acar, Y. B., Ozsu, E. E., Alshawabkeh, A. N., Fazle Rabbi, M., and Gale, R. **Enhanced Soil Bioremediation with Electric Fields.** Chemtech, American Chemical Society, 1996. Vol. 26, N<sup>o</sup>. 4, p. 40-44.

Adriens, P., Gruden, C. and Skerlos, S. **Microbial Sensing and Control Strategies for Bioremediation Applications.** Proc. Of Innovative Approaches to the In-Situ Assessment and Remediation of Contaminated Sites, Hazardous Substance Research Center & Pontifical Catholic University of Rio de Janeiro, Rio de Janeiro: 2002. p. 5-6.

Alshawabkeh, A. **Basic and Applications of Electrokinetics Remediation.** Handouts prepared for a short course, Federal University of Rio de Janeiro, Rio de Janeiro: 2001. p. 95.

Alshawabkeh, A. N., Puppala, S., Acar, Y. B., Gale, R., and Bricka, R. M. **Effect of Solubility on Enhanced Electrokinetic Extraction of Metals.** Proceedings of In Situ Remediation of the Geoenvironment - In Situ Remediation 97. ASCE, Geotechnical Special Publication, 1997. N<sup>o</sup>. 71, p. 532-544.

Alshawabkeh, A. N. and Acar, Y. B. **Electrokinetic Remediation: II. Theoretical Model.** ASCE, Journal of Geotechnical Engineering, 1996. Vol. 122, N<sup>o</sup>. 3, p. 186-196.

Alshawabkeh A. N. and Acar, Y. **Principles of Species Transport in Saturated Soils Under Electric Field.** Proceedings of International Symposium on Geotechnics Related to the Environment, Bolton, UK: 28 June - 1 July 1993.

Alshawabkeh, A. N., Acar, Y., B. Rabbi, F. and Ozsu, E. **Electrokinetic Injection of Ions into Soil for Bioremediation.** Emerging Technologies in Hazardous Waste Management VIII, Industrial & Chemistry Division of the American Chemical Society (ACS), Alabama, Birmingham, September/1996.

Araruna Jr., J.T, Rivas, B.M.M. Mergulhão, A.J.P.P. Souza, M.V. & Antunes, F.S. **Laboratory investigation of electroosmosis flow efficiency in a residual soil from gneiss.** 4<sup>th</sup> ICEG Environmental Geotechnics, Rio de Janeiro: 2002. Vol. 2, p. 881-886.

Araruna Jr., J.T. e Laurindo, A.L.P. **Desenvolvimento de uma célula para o estudo de descontaminação de solos através de eletrocinese.** II Encontro de Geotecnia e Meio Ambiente. Rio Claro, São Paulo: 19 e 20 de Novembro de 1998.

Braga, B. **Introdução à Engenharia Ambiental.** Prentice Hall, São Paulo: 2002. 305p.

Bedient . **Ground water contamination.** Prentice Hall, New Jersey: 1994. 542 p.

Bernatzik. **Contribution to the seepage pressure in electro-osmosis.** Proc.of Sec.Int.Conf.on Soil Mechanics and Foundation Engineering, Rotterdam: 1948. Vol.5, p. 63-66.

Boopathy, R. **Factors limiting bioremediation technologies.** Bioresource Technology, 2000. Vol. 74, p. 63-67.

Casagrande, L. **Eletro-osmosis in Soils.** Géotechnique, June, 1949. Vol.1, N<sup>o</sup>. 3, p. 159-177.

Casagrande, L. **Stabilization of soils by means of electro-osmosis: State-of-the-Art.** Journal of the Boston Society of civil engineers, 1983. Vol. 69, p. 255-302.

Collins, Y.E., Stotzky, G. **Heavy metals alter the electro- kinetic properties of bacteria, yeasts, and clay minerals.** Appl.Environ. Microbiol., 1992. Vol. 58, p. 1592 – 1600.

De Flaun & Condee. **Electrokinetic transport of bacteria**. Journal of Hazardous Materials, 1997. Vol. 55, p. 263-277.

EMBRAPA, Centro Nacional de Pesquisa de Solos. **Manual de Métodos de Análises de Solo**. 2ªEd, 1997. 212p.

Eykholt, G. R. and Daniel, D. E. **Impact of system chemistry on electroosmosis in contaminated soil**. ASCE, Journal of Geotechnical Engineering, 1994. Vol. 120, Nº 5, p. 797–815.

Gaudy & Gaudy. **Elements of bioenvironmental engineering**. Engineering Press, Inc., San Jose, California, 1988. 592p.

Gray, D.H. and Mitchell, J.K. **Fundamental aspects of electroosmosis in soils**. Journal of Soil Mechanics and Foundations Division, ASCE, 1966. Vol. 93, Nº. SM 6, p. 209-236.

Hamed, J. Acar, Y.B., Gale, R.J. **Pb (II) Removal from kaolinite by electrokinetics**. Journal of Geotechnical Engineering, ASCE, 1991. Vol. 117, Nº 2, p. 241-271.

Kim, Y. **Electrokinetic remediation of organic mixture contaminated soil with surfactant enhancement method** 4<sup>th</sup> ICEG Environmental Geotechnics, 2002. Vol. 2, p. 851-857.

Kormondy, E.D. **Concepts of Ecology**. Englewood Cliffs, Prentice Hall, Inc. 2ªEd. 1976.

Lambe, T.W., Whitman, R.V. **Soil Mechanics**. John Wiley & Sons, SI Version, New York: 1970. 552p.

Laurindo, A. L. **Estudo da eletrocinese em laboratório**. Tese. (Mestrado em Geotecnia), UENF, Rio de Janeiro: 1999. 94p.

Mitchell, J.K. **Fundamentals of Soil Behavior**. John Wiley & Sons, Inc., New York: 2ª Ed., 1993.

Monteiro, C.K. **Curso de Microbiologia Ambiental**. CETESB, UFRJ, Rio de Janeiro, 1989. 147p.

Moreira, F.M.S. **Microbiologia e Bioquímica do solo**. Editora UFLA, Minas Gerais: 2002. 625p.

Mota, Suetônio. **Introdução à engenharia ambiental**. ABES, Rio de Janeiro: 1997. 292p.

Odum, E. **Fundamentals of Ecology**. Toronto, W.B. Saunders, 3ª.Ed., 1971.

Pelczar, M.J. **Microbiologia: conceitos e aplicações**. Makron Books – São Paulo: 2ª.Ed, 1997. Vol. 1.

Piaskowski, A. **Investigations on Electro-osmotic flow in soils on relation to different Characteristics**. 4<sup>th</sup> ICSMFE. London: 1957. p. 89-92.

Puppala, S., Alshawabkeh, A. N., Acar, Y. B., and Gale, R. **Enhanced Electrokinetic Remediation of High Sorption Capacity Soils**. Journal of Hazardous Materials, 1997. Vol. 55, p. 203-220.

Rivas, B.M. **Estudo da eletro-osmose em solos residuais: desenvolvimento de equipamento e metodologia de ensaio**. Tese. (Mestrado em Geotecnia), PUC, Rio de Janeiro: 2002. 89p.

Roitman, I. **Tratado de Microbiologia**. Editora Malone, São Paulo: 1988. Vol.1.

S. Pamukcu, J.K. Wittle. **Electro-Chemical technologies for in-situ restoration of contaminated Subsurface Soils**. Environmental. Program. 1992. Vol. 11, N° 3, p. 241-250.

Santos, P.S. **Ciência e tecnologia de argilas**. Edgard Blucher, São Paulo: 2ª Ed., 1989. Vol.1.

Schmidt, Celina. **Aplicação de técnicas de biorremediação eletrocinética a solos orgânicos contaminados por hidrocarbonetos de petróleo**. Seminário de Qualificação de Doutorado, COPPE, UFRJ. Rio de Janeiro: 2001. 65p.

Segall, B.A., Bruell, C.J. **Electroosmotic Contaminant-Removal Process**. ASCE, Journal of Environmental Engineering, 1992. Vol. 118, N° 1, p. 84-100.

Shapiro, A. P. and Probststein, R.F. **Removal of contaminants from saturated clay by electroosmosis**. Environmental. Science. Technology., 1993. Vol. 27, p. 283-291.

Shapiro, A. P., Renaud, P. C., and Probststein, R. F. **Preliminary studies on the removal of chemical species from saturated porous media by electroosmosis**. PCH PhysicoChemical. Hydrodyn, 1989. Vol.11, N° 5 e 6, p. 785-802.

Stevenson. **Methods of soil analysis**. Chemical Methods, 1996. Vol. 3, N° 5.

Manzatto. **Estudo comparativo de métodos de determinação do teor de matéria orgânica em solos orgânicos do estado do Rio de Janeiro**. Rio de Janeiro: 1999. N° 3, p. 1-5.

Maillacheruvu K. and Alshawabkeh, A. N. **Microbial Activity under Electric Fields**. Emerging Technologies in Hazardous Waste Management, American Chemical Society (ACS) Meeting, Industrial and Engineering Chemistry Division, August 23-27, Boston, MA: 1998.

Thevanayagam, S. and Rishindran, T. **Injection of nutrients and TEAs in clayey soils using electrokinetics**. Journal of Geotechnical and Geoenvironmental Engineering, 1998. Vol. 124, N° 4, p. 330-338.

Wang, W.S. **Stresses in a Saturated Soil Mass During Electro-Osmosis**. 3<sup>rd</sup> ICSMFE International Conference on Soil Mechanics and Foundation Engennering. Zurich: 1953. p. 76-79.

Zappi. **Technical approaches for in situ biological treatment research: bench-scale experiments**. US Army Corps of Engineers, Waterways Experiment Station, Vicksburg, MS, 1993. N° IRP93-3.