

## 7

**Referências Bibliográficas**

ANATOLY, F. **Corrosão**. Campos dos Goytacazes: Universidade do Norte Fluminense - UENF, Laboratório de Materiais Avançados, 2007, 156p. Notas de aulas.

ANTONY, P.J. et al. **Corrosion of 2205 duplex stainless steel in chloride medium containing sulfate-reducing bacteria**. *Electrochimica Acta* 52, p. 3985–3994. [S.I.] ed. Elsevier Ltda., 2006. Disponível em: <www.sciencedirect.com>. Acesso em: 12 ago. 2007.

BARTON, L. **Sulfate reducing bacteria, Biotechnology Handbooks**, ed. Plenum Press, v.8, p. 50-55, Nova York, E.U.A., 1995.

BEECH, I.B.; SUNNER, J. **Biocorrosion: towards understanding interactions between biofilms and metals**. *Current Opinion in Biotechnology*, 15, p. 181–186. [S.I.] ed. Elsevier Science Inc., 2004. Disponível em: <www.sciencedirect.com>. Acesso em: 08 maio 2007.

BEECH, I.B. **Corrosion of technical materials in the presence of biofilms—current understanding and state-of-the art methods of study**. *International Biodeterioration & Biodegradation* 53, p. 177 – 183. [S.I.] ed. Elsevier Ltda., 2004. Disponível em: <www.sciencedirect.com>. Acesso em: 12 ago. 2007.

BEECH, I.B et al. **The use of atomic force microscopy for studying interactions of bacterial biofilms with surfaces**. *Colloids and Surfaces B:P Biodeterioration*, v.23, p. 231 – 247. [S.I.:s.n.], 2002. Disponível em: <www.sciencedirect.com>. Acesso em: 12 ago. 2007.

CASTANEDA, H.; BENETTON, X.D. **SRB-biofilm influence in active corrosion sites formed at the steel-electrolyte interface when exposed to artificial seawater conditions**, *Corrosion Science*, Vol. 50, p. 1169-1183. ed. Pergamon Elsevier, 2008. Disponível em: <www.sciencedirect.com>. Acesso em: 10 mar. 2008.

CHARACKLIS, W.G; MARSHALL, K.C. (Org.). **Biofilms**, Nova York: John Wiley & Sons, 1990.

CONGMIN, X. et al. **Corrosion and Electrochemical Behavior of 316L Stainless Steel in Sulfate-reducing and Iron-oxidizing Bacteria Solutions**. Chinese J.Chem. Eng., v.14, n. 6, p. 829-834. [S.l.:s.n.], 2006. Disponível em: <www.sciencedirect.com>. Acesso em: 12 ago. 2007.

CYPIONKA, H. **Solute transport and cell energetics – Biotechnology handbooks**, In: Sulfate-reducing bacteria, 8 ed., Nova York: Barton, L. Plenum Press, 1995, p.125-128.

CRISTÓBAL, A.B. et al. **Corrosion of stainless steels covered by exopolymers**. Electrochimica Acta 52, p. 546–551. [S.l.] ed. Elsevier , 2006. Disponível em: <www.sciencedirect.com>. Acesso em: 15 ago. 2007.

DUAN, J.; HOU, B.; YU, Z. **Characteristics of sulfide corrosion products on 316L stainless steel surfaces in the presence of sulfate-reducing bacteria**. Materials Science and Engineering C v.26, p. 624 – 629. [S.l.] ed. Elsevier B.V., 2006. Disponível em: <www.sciencedirect.com>. Acesso em: 20 jul. 2007.

DUTRA, A.J.B. **Fundamentos de Eletrometalurgia**, Rio de Janeiro: Universidade Federal do Rio de Janeiro, 2004, 54p. Notas de aulas.

EDEN, B., LAYCOCK, P.J.; FIELDER, M. Oilfield reservoir souring. In: Curso de capacitação da CAPCIS, 1994, Rio de Janeiro. **Resumos...** Rio de Janeiro: CENPES, Petrobras, 1994, p 4-5.

FERON, D. **Attachment of Desulfovibrio vulgaris to steels: influence of alloying elements, in: Tiller, A.K.; Sequeira, C.A.C.** In: Proceedings of the 3<sup>rd</sup> International EFC Workshop, Estoril, Portugal, 1994, p.119.

FONTANA, M.G. **Corrosion Engineering**, 3th ed. New York: McGraw-Hill International Edition, 1987. 287p.

FOUQUE, G.D. Ecology of sulfate-reducing bacteria, In:\_\_\_ **Sulfate-reducing bacteria**, 2 ed. New York: Larry L. Barton, Plenum Press, 1995, p. 217-241.

GAYLARDE, C.C.; VIDELA, H.A. **Bioextraction and biodeterioration of metals**. 3th ed. London: Cambridge University Press, 1995, 456p.

GONZALEZ, J.E.G.; SANTANA, F.J.H.; MIRZA-ROSCA, J.C. **Effect of bacterial biofilm on 316 SS Corrosion in natural seawater by EIS**. Corrosion Science, v.39, n.1, p. 2141-2151. [S.I.] ed. Pergamon; Elsevier, 1998. Disponível em: <www.sciencedirect.com>. Acesso em: 12 agosto 2007.

ISTA, L.K. et al., **Effect of Substratum Surface Chemistry and Surface Energy on Attachment of Marine Bacteria and Algal Spores**. Applied and Environmental Microbiology, v.70, n.7, 2004, p.4151–4157. [S.I.] ed. American Society for Microbiology.

JUNIOR, W.B.C. **Estudo do efeito de diferentes parâmetros na formação de biofilmes e no processo de biocorrosão**. 2004. 114f. Tese (Doutorado em Engenharia Química) – Escola de Química da Universidade Federal do Rio de Janeiro, Rio de Janeiro, 2004.

KELLY, R.G. et al. **Electrochemical techniques in corrosion science and engineering**. 2nd ed. New York: Marcel Dekker, 2003.

KÜHL, M.; RICKELT, L.F.; THAR, R. **Combined Imaging of Bacteria and Oxygen in Biofilms**. Applied and Environmental Microbiology, v.73, n.19, 2007, p. 6289–6295. [S.I.] ed. American Society for Microbiology, 2007. Disponível em: <www.sciencedirect.com>. Acesso em: 05 mar. 2008.

LAITINEN, T. **Localized Corrosion of Stainless Steel in chloride, sulfate and thiosulfate containing environments**. Corrosion Science, v.42, n. 2000, p. 421-441. Disponível em: <www.sciencedirect.com>. Acesso em: 05 mar. 2008.

LANDOULSI, J. et al. **Enzymatic Approach in Microbial-Influenced Corrosion: A Review Based on Stainless Steels in Natural Waters**. Environmental Science & Technology, v.42, n.7, 2008, p. 2233–2242. [S.I.:s.n.] Disponível em: <www.sciencedirect.com>. Acesso em: 22 jun 2008.

LANDOLT, D. **Corrosion and Surface Chemistry of Metals**, 3th ed Switzerland: EPFL Press, 2007, 622p.

LAYCOCK, N.J.; NEWMAN, R.C. **Localized Dissolution Kinetics, Salt Films and Pitting Potentials**. Corrosion Science, v.39, n. 10-11, p. 1771-1790, 1997. [S.l.:s.n.] Disponível em: <www.sciencedirect.com>. Acesso em: 22 jun 2008.

LICINA, G. Monitoring Methods for MIC, In: Corrosion & Conference da NACE, 2007, Nashville. **Anais...**Nashville: NACE, 2007, n. 07336

LUTTERBACH, M.T.S.;FRANÇA, F.P. **Biofilm formation on brass coupons exposed to cooling water**, Brazilian Journal of Chemical Engineering, v. 14 n. 1, São Paulo, 1997.

MAGALHÃES, F.C.M. **Previsão de produção biogênica de H<sub>2</sub>S (souring) no campo de Marlim**. Rio de Janeiro: Petrobras,1997, 89p. Relatório Técnico.

MALIK, A.U. et al. **Corrosion behavior of steels in Gulf seawater environment**. Desalination v.123, p. 205-213. [S.l.] ed. Elsevier B.V., 1999. Disponível em: <www.sciencedirect.com>. Acesso em: 20 jul. 2007.

MALIK, A.U. et al. **Crevice corrosion behavior of high-alloy stainless steels in a SWRO pilot plant**. Desalination v.171, p. 289-298. [S.l.] ed. Elsevier B.V., 2004. Disponível em: <www.sciencedirect.com>. Acesso em: 20 jul. 2007.

MIRANDA, M.A.R et al. **The use of X-ray diffraction, microscopy and magnetic measurements for analyzing microstructural features of a duplex stainless steel**, Materials Characterization v. 54, p. 387-393, 2005. [S.l.:s.n.]. Disponível em: <www.sciencedirect.com>. Acesso em: 10 jul. 2007.

PENDYALA, J. **Chemical effects of biofilm colonization on stainless steel, tese de doutorado**, 1996, 163p. Tese (Doutora em Física).- Montana State University, Bozeman, 1996.

PERCIVAL, S.L. **The effect of molybdenum on biofilm development**, Journal of Industrial Microbiology & Biotechnology v. 23, p. 112-117, 1999. [S.l.:s.n.]. Disponível em: <www.stockton-press.co.uk/jim>. Acesso em: 10 jul. 2007.

PERCIVAL, S.L. et al. **Biofilms, main water and stainless steel**. Water Research, v.32, n.7, p. 2187-2201, 1997. [S.l.:s.n.]. Disponível em: <www.sciencedirect.com>. Acesso em: 10 jul. 2007.

POPE, D.H. et al. **Microbiologically influenced corrosion: a state-of-the-art review**, 1<sup>st</sup>. ed New York: Rensselaer Polytechnic Institute, 1984.

POSTGATE, J.R. **The sulphate-reducing bacteria**, 2nd ed. London: Cambridge University Press, 1984, 386p.

RAO, T.S. et al. **Carbon steel corrosion by iron oxidising and sulphate reducing bacteria in a freshwater cooling system**. Corrosion Science v.42, p. 1417-1431. [S.l.] ed. Pergamon; Elsevier Science Ltd., 2000. Disponível em: <www.sciencedirect.com>. Acesso em: 20 jul. 2007.

ROZANOVA, E.P.; KHUDYAKOVA, A.S. **New non-sporulating thermophilic organism *Desulfovibrio thermophilus* sp.** Mikrobiologiya, v.43, p.1069, 1974. [S.l.:s.n.]. Disponível em: <www.sciencedirect.com>. Acesso em: 14 jun. 2007.

SANTOS, R.; CALLOW, M.E.; BOTT, T.R. **The structure of *Pseudomonas fluorescens* biofilms in contact with flowing systems**. Biofouling, v.4, p. 319-336.1991. [S.l.:s.n.]. Disponível em: <www.sciencedirect.com>. Acesso em: 18 nov. 2007.

SEDRIKS, A.J. **Corrosion of stainless steels**, 2<sup>nd</sup>. ed. New York: John Wiley & Sons, 1996, 437p.

SHAMS EL DIN, A.M.; EL-DAHSHAN, M.E.; TAG EL DIN, A.M. **Bio-film formation on stainless steels Part 2. The role of seasonal changes, seawater composition and surface roughness**. Desalination, v.154, p. 267-276. [S.l.] ed. Elsevier Science B.V., 2003. Disponível em: <www.elsevier.com/locate/desal>. Acesso em: 10 maio 2007.

SHAMS EL DIN, A.M.; SABER, T.M.H.; HAMMOUD, A.A. **Biofilm formation on stainless steels in Arabian Gulf water.** Desalination v. 107, p. 251-264. [S.I.] ed. Elsevier Science, 1996. Disponível em: <www.sciencedirect.com>. Acesso em: 08 maio 2007.

SHENG, X.; TING, Y.; PEHKOVEN, S.O. **The influence of sulphate-reducing bacteria biofilm on the corrosion of stainless steel AISI 316.** Corrosion Science v.49, p.2159-2176, 2007. Disponível em: <www.sciencedirect.com>. Acesso em: 08 maio 2007.

SHI, X. et al. **Comparative study in chemistry of microbially and electrochemically induced pitting of 316L stainless steel.** Corrosion Science v.45. p.2577–2595.[S.I.] ed. Elsevier, 2003. Disponível em: <www.sciencedirect.com>. Acesso em: 12 ago. 2007.

SKOLNIK, A.M.; HUGHES, W.C.; AUGUSTINE, B.H. **A Metallic Surface Corrosion Study in Aqueous NaCl Solutions Using Atomic Force Microscopy (AFM).** Chemical Educator v. 5. p. 8-13, [S.I.] ed Springer-Verlag, 2000. Disponível em: <www.sciencedirect.com>. Acesso em: 20 out. 2007.

SOOKNAH, R.; PAPA VINASAM, S.; REVIE, R.W. Modelling The Occurrence of Microbiologically Influenced Corrosion. In: Corrosion & Conference da NACE, 2007, Nashville. **Anais...**Nashville: NACE, 2007, n. 07515.

STREVETT, K.A.; CHEN, G. **Microbial surface thermodynamics and applications.** Research in Microbiology v. 154, p.329-335, 2003. [S.I.:s.n.]. Disponível em: <www.sciencedirect.com>. Acesso em: 19 nov. 2007.

SUNDE, E.; THORSTENSON, T. **Growth of bacteria on water injection additives.** In: Society of Petroleum Engineering Journal, New York, n. 20690, 1990, 4p.

TAYLOR, R.L. et al. **The influence of substratum topography on bacterial adhesion to polymethyl methacrylate.** Journal of Materials Science: Materials in Medicine v. 9, p. 17-22, Manchester, 1998, ed. Chapman & Hall.

UHLIG, H. **Handbook of Corrosion Engineer**, 5<sup>th</sup> ed New York: John Wiley, 2001, 780p.

YAMAMOTO, K.; HOSOYA, K. **Corrosivity of Br<sup>-</sup> and Cl<sup>-</sup> on duplex stainless steel**. *Materials Science and Engineering A* v. 198, p. 239-243. [S.I.] ed. Elsevier Science S.A, 1995. Disponível em: <[www.sciencedirect.com](http://www.sciencedirect.com)>. Acesso em: 26 mar. 2008.

VIDELA, H.A. **Biocorrosão, biofouling e biodeterioração de materiais**, 1 ed. São Paulo: Edgard Blucher Ltda, 2003, 148p.

VIDELA, H.A.; HERRERA, L.K. **Microbiologically influenced corrosion: looking to the future**, *International Microbiology* v.8, p.169-180, 2005. Disponível em: <[www.sciencedirect.com](http://www.sciencedirect.com)>. Acesso em: 26 mar. 2008.

XU, L.; CHAN, K.; FANG, H.H.P. **Application of atomic force microscopy in the study of microbiologically influenced corrosion**. *Materials Characterization* v. 48, p. 195–203. [S.I.] ed. Elsevier Science Inc., 2002. Disponível em: <[www.sciencedirect.com](http://www.sciencedirect.com)>. Acesso em: 08 maio 2007.

ZOBELL, C. The ecology of sulfhate-reducing bacteria, In: *Sulphate-reducing Bacteria – Their relation to the secondary recovery of Oil Symposium*, 1957, [S.l.:s.n.], 1957, St. Bonaventure. **Anais...** St. Bonaventure: St. Bonaventure University, 1957, p.5-9.