

## Referências Bibliográficas

- [1] IEA. International Energy Agency. World Energy Outlook 2010. Nov. 2010.
- [2] EIA. Energy Information Administration. International Energy Outlook 2010. June 2010.
- [3] BP. Statistical Review of World Energy June 2010. June 2010.
- [4] IEA. International Energy Agency. World Energy Outlook 2008. Nov. 2008.
- [5] CEPETRO. Centro de Estudos de Petróleo. Disponível em: < [http://www.cepetro.unicamp.br/petroleo/index\\_petroleo.html](http://www.cepetro.unicamp.br/petroleo/index_petroleo.html) >. Acesso em: Abril 2010.
- [6] MARINHO JR., I. P. Petróleo: Política e poder – Um novo choque do petróleo?. Rio de Janeiro: José Olympio Editora, 1989.
- [7] GUILLEN, V. R. N.. Deslocamento de óleo em um meio poroso através de injeção de emulsões óleo-em-água: análise de fluxo linear. Dissertação de Mestrado, DEM, PUC-RIO, 2007.
- [8] ROSA, A. J.; CARVALHO, R. S.; XAVIER, J. A. D.. Engenharia de Reservatórios de Petróleo. Rio de Janeiro: Interciência PETEOBRAS, 2006.
- [9] DONALDSON, E. C.; CHILINGARIAN, G. V.; YEN, T. F.. Enhanced Oil Recovery, I. Fundamentals and Analyses. New York: Elsevier Science Publishing Company Inc., 1985.

- [10] LAKE, L. W.; SCHMIDT, R. L.; VENUTO, P. B.. A niche for enhanced oil recovery in the 1990s. Oilfield Review January 1992. SCHLUMBERGER, 1992.
- [11] McAULIFFE, C. D.. Oil-in-water emulsions and their flow properties in porous media. Journal of Petroleum Technology, SPE 4369: 727-733, 1973.
- [12] BRAGG, J. R.. Oil recovery method using an emulsion. United States Patent. No. 5855243. Jan 5, 1999.
- [13] SHAH, D. O.. Macro and Micro-emulsions Theory and Applications. Washington, D. C.: American Chemical Society, 1985.
- [14] BECHER, P.. Emulsion theory and practice. 3. ed. New York: Oxford University Press, 2001.
- [15] DAVIES, G. A.; NILSEN, F. P.; GRAMME, P. E.. The formation of stable dispersions of crude oil and produced water: the influence of oil type, wax and asphaltene content. SPE Annual Technical Conference and Exhibition, pp. 163-171. Denver, Colorado. Outubro 1996.
- [16] MIRANDA, A. C.. Formação de emulsões no escoamento multifásico de óleo e água em meios porosos. Dissertação de Mestrado, DEM, PUC-RIO, 2010.
- [17] SCHRAMM, L. L.. Emulsion, foams and suspensions, fundamentals and applications. Wiley VCH, 2005.
- [18] VAN DER ZANDE, M. J.; CURRIE, P. K.. Droplet break-up in turbulent oil-in-water flow through a restriction. PhD Thesis, TU Delf University of Technology 2000.
- [19] DEL AGUILA, M.. Escoamento de emulsões óleo em água através de microcapilares. Dissertação de Mestrado, DEM, PUC-RIO, 2008.

- [20] PEÑA, B. T.. Geração de emulsões durante a produção de petróleo. Tese de Doutorado, DEM, PUC-RIO, 2007.
- [21] RIDEAL, K. E.. An introduction to surface chemistry. Cambridge U. Press, Cambridge London, 1926.
- [22] BIRDI, K. S.. Self-assembly monolayer structures of lipids and macromolecules at interface. New York: Kluwer Academic/Plenum Publishers.
- [23] FOX, R. J.; MC DONALD, A. T.. Introdução à mecânica dos fluidos. 6ª. Ed. Rio de Janeiro: LTC Editora, 2006.
- [24] OLBRICHT, W. L.; LEAL, L. G.. The creeping motion of liquid drops through a circular tube of comparable diameter: the effect of density differences between fluids. *Journal of Fluid Mechanics*. vol. 115, pp. 187-216. Grã Bretanha, 1982
- [25] OLBRICHT, W. L.; LEAL, L. G.. The creeping motion of immiscible drops through a converging/diverging tube. *Journal of Fluid Mechanics*. vol. 134, pp. 329-355. Grã Bretanha, 1983
- [26] ALVARADO, D. A.; MARSDEN, S. S.. Flow of oil-in-water emulsions through tubes and porous media. Society of Petroleum Engineers, 1979.
- [27] SOO, H.; RADKE, C.. The flow mechanism of dilute, stable emulsions in porous media. *Ind. Eng. Chem. Fundamentals*, 23. pp. 342-347, 1984.
- [28] KHAMBHARATANA, F.. Flow of emulsions in porous media. Tese de Doutorado, University of Alberta, 1993.
- [29] JANSSEN, P.. Characterization of oil in water mixtures produced in high-watercut oil wells. Tese de Doutorado, Delf University of Technology, 2000.

- [30] COBOS, S.; CARVALHO, M. S.; ALVARADO, V.. Flow of oil-water emulsions through a constricted capillary. *International Journal of Multiphase Flow*, 35, pp. 507-517. 2009
- [31] BRAND GMBH + CO KG. Disponível em: <[http://www.brand.de/fileadmin/user/pdf/GK800/portuguese/GK800\\_01\\_Liquid\\_Handling\\_prtg.pdf](http://www.brand.de/fileadmin/user/pdf/GK800/portuguese/GK800_01_Liquid_Handling_prtg.pdf)>. Acesso em: Junho 2010.
- [32] MALVERN INSTRUMENTS. Disponível em: <[http://www.malvern.com/LabEng/technology/images/mastersizer\\_submicron\\_particle\\_size.png](http://www.malvern.com/LabEng/technology/images/mastersizer_submicron_particle_size.png)>. Acesso em: Abril. 2010.
- [33] RAMALHO, J. B. V. S.; OLIVEIRA, M. C. K.. Metodologia para determinação da distribuição do diâmetro de gotas em emulsões de petróleo do tipo água-óleo por difração laser. *Boletim técnico. PETROBRAS*. 42(1/4): 72-76. 1999.
- [34] SYRINGE PUMPS – COLE-PARMER. Disponível em: <[http://www.coleparmer.com/catalog/product\\_view.asp?sku=7490300](http://www.coleparmer.com/catalog/product_view.asp?sku=7490300)>. Acesso em: Junho 2010.
- [35] VALIDYNE ENGINEERING CORP. Disponível em: <<http://www.validyne.com/ProductDisplay.aspx?Pid=12>>. Acesso em: Março 2010.
- [36] WERELEY, S. T.; GUI, L.; MEINHART, C. D.. Advanced algorithms for microscale particle image velocimetry. *AIAA Journal*, Vol 40, pp. 1047-1055, June 2002.
- [37] SANTIAGO, J. G.; WERELEY, S. T.; MEINHART, C. D.; BEEBE, D. J.; ADRIAN, R. J.. A particle image velocimetry system for microfluidics. *Experiments in Fluids* 25, pp. 316-319. Springer-Verlag 1998.

- [38] MEINHART, C. D.; WERELEY, S. T.; SANTIAGO, J. G.. PIV measurements of a microchannel flow. *Experiments in Fluids* 27, pp. 414-419. Springer-Verlag, 1999.
- [39] KOUTSIARIS, A. G.; MATHIOULAKIS, D. S.; TSANGARIS, S.. Microscope PIV for velocity-field measurement of particle suspensions flowing inside glass capillaries. *Measurement Science and Technology* 10, pp. 1037-1046, 1999.
- [40] MEINHART, C. D.; ZHANG, H.. The flow structure inside a micro-fabricated inkjet printer head. *Journal of Microelectromechanical Systems*, Vol.9, pp. 67-75. IEEE, 2000.
- [41] BROWN, M. R.; MACINNES, J. M.; ALLEN, R. W. K.. Micro-PIV simulation and measurement in complex microchannel geometries. *Measurement Science and Technology* 16, pp. 619-626, 2005.
- [42] VAN STEIJN, V.; KREUTZER, M. T.; KLEIJN, C. R..  $\mu$ -PIV study of the formation of segmented flow in microfluidic T-junctions. *Chemical Engineering Science* 62, pp. 7505-7514, 2007.
- [43] INVITROGEN CORPORATION. Disponível em: <<http://products.invitrogen.com/ivgn/product/F13082?ICID=search-product>>. Acesso em: Maio 2010.
- [44] ESI. ELECTRO SCIENTIFIC INDUSTRIES INC. Disponível em: <<http://www.esi.com/Products/NewWaveResearch/LaserComponentsPIV/SoloIII.aspx>>. Acesso em: Maio 2010.
- [45] TSI INC. Micro particle image velocimetry operation manual. *Fluids Mechanics*. Agosto 2006.
- [46] MIELNIK, M.; SAETRAN, L.. Micro particle image velocimetry - an overview. *Turbulence* 10, pp. 83-90. Kielce, Polônia. Setembro, 2004.