

## Referências Bibliográficas

- [1] PAI, D. M.; SPRINGETT, B. E.. **Physics of electrophotography**. Rev. Mod. Phys, 65:163–211, 1993.
- [2] FINN, P. J.. **Flow coating process for manufacture of polymeric printer and belt components**. Relatório Técnico, 2003.
- [3] HUPPERT, E.. **Flow and instability of a viscous current down a slope**. Letters to Nature, 300:427–429, 1982.
- [4] SCHWARTZ, L. W.. **Viscous flows down an inclined plane: Instability and finger formation**. Physics of Fluids, 41:443–445, 1988.
- [5] PANTON, R. L.. **Incompressible Flow**. Wiley Intercience Publication, USA, 1996.
- [6] ORON, A.; DAVIS, S.; BANKOFF, S. G.. **Long-scale evolution of thin liquid films**. Rev. Mod. Phys, 138, 1997.
- [7] SCHWARTZ, L. W.; MICHAELIDIS, E. E.. **Gravity flow of a viscous liquid down a slope with injection**. Physics of Fluids, 31:2739–2741, 1988.
- [8] J., D.; KONDIC, L.. **Computing three-dimensional thin film flows including contact lines**. Journal of Computational Physics, 183:274–306, 2002.
- [9] MYERS, T. G.. **Viscous flows down an inclined plane: Instability and finger formation**. SIAM Review, 40:441–462, 1998.
- [10] ORCHARD, S. E.. **On surface levelling in viscous liquids and gels**. Appl. Sci. Res. A., 11:451–464, 1962.
- [11] HUH C.; SCRIVEN, L.. **Hydrodynamic model of steady movement of a solid / liquid / fluid contact line**. Journal of Colloid and Interface Science, 31, 1971.
- [12] DUSSAN, E. B.; H., D. S.. **On the motion of a fluid-fluid interface along a solid surface**. Journal of Fluid Mechanics, 65:71–95, 1974.
- [13] DEGENNES, P. G.. **Wetting: static and dynamics**. Rev. Mod. Phys, 57:827–861, 1985.

- [14] SCHWARTZ, A. M.; B., T. S.. **Studies of dynamic contact angles on solids.** Journal of Colloid and Interface Science, 38:359–375, 1975.
- [15] HOFFMAN, R. L.. **A study of the advancing interface.interface shape in liquid-gas systems.** Journal of Colloid and Interface Science, 50:228–241, 1975.
- [16] CHEN, J.. **Experiments on a spreading drop and its contact angle on a solid.** Journal of Colloid and Interface Science, 122:60–72, 1988.
- [17] FRUMKIN, A. N.. **translated into german in acta physicochim. urss, 9, 313 (1938).** Zh. Fiz. Khim, 12:337, 1938.
- [18] DERJAGUIN, B. V.. **In russian.** Kolloid Zh., 17:207, 1955.
- [19] LUDVIKSSON, V.; LIGHTFOOT, E. N.. **The dynamics of thin liquid films in the presence of surface-tension gradients.** AIChE Journal, 14:674–684, 1968.
- [20] HANSEN, R. J.; TOONG, T. Y.. **Dynamic contact angle and its relationship to forces of hydrodynamic origin.** Journal of Colloid and Interface Science, 37:196–207, 1971.
- [21] ERES, M. H.; SCHWARTZ, L. W.; ROY, R. V.. **Fingering phenomena for driven coating films.** Physics of Fluids, 12:1278–1295, 2000.
- [22] DIEZ, J. A.; KONDIC, L.; BERTOZZI, A.. **Global models for moving contact lines.** Rev. Mod. Phys, 63:011208/1–13, 2000.
- [23] GIACOMELLI, L.. **A fourth-order degenerate parabolic equation describing thin viscous flows over an inclined plane.** Appl. Math. Lett., 12, 1998.
- [24] HEATH, M. T.. **Scientific Computing: An Introductory Survey.** McGraw-Hill, New York, 1997.
- [25] BARRETT, J.W.; BLOWEY, J.; GARCKE, H.. **Finite element approximation of a fourth order nonlinear degenerate parabolic equation.** Journal Numerische Mathematik, 80, 1998.
- [26] BERTOZZI, A.. **The mathematics of moving contact lines in thin liquid films.** Notices Am. Math. Soc., 45, 1998.
- [27] ZHORNITSKAYA, L.; BERTOZZI, A.. **Positivity-preserving numerical schemes for lubrication-type equations.** SIAM Journal on Numerical Analysis, 37, 2000.

- [28] PEACEMAN, D. W.; RACHFORD, H. H.. **The numerical solution of parabolic and elliptic differential equations.** J. Soc. Indust. Appl. Math., 3, 1955.
- [29] DOUGLAS, J.. **On the numerical integration of by implicit methods.** 1998.
- [30] CONTE, S. D.. **A stable implicit finite difference approximation to a fourth order parabolic equation.** Journal of the ACM(JACM), 4, 1957.
- [31] CONTE, S. D.; DAMES, R. T.. **An alternating direction method for solving the biharmonic equation.** ACM Annual Conference/Annual Meeting, 1958.
- [32] IANENKO, N. N. N. N.. **The method of fractional steps; the solution of problems of mathematical physics in several variables [by] N. N. Yanenko.** English translation edited by M. Holt. Springer-Verlag, Berlin : New York, 1971.
- [33] ERES, M. H.; WEIDNER, D. E.; SCHWARTZ, L. W.. **Three-dimensional direct numerical simulation of surface-tension-gradient effects on the leveling of an evaporating multicomponent fluid.** American Chemical Society, 15:1859–1871, 1999.
- [34] CRANK, J.; NICOLSON, P. H. D. R.. **A practical method for numerical evaluation of solutions of partial differential equations of the heat-conduction type.** Advances in Computational Mathematics, 6, 1996.
- [35] YPMA, T. J.. **Historical development of the newton-raphson method.** SIAM Rev., 37(4):531–551, 1995.
- [36] SAAD, Y.; SCHULTZ, M. H.. **Gmres: A generalized minimal residual algorithm for solving nonsymmetric linear systems.** SIAM Journal on Scientific and Statistical Computing, 7, 1986.
- [37] HOLDICH, R.; STAROV, V. M. P. P. D. R. Z. S.; VELARDE, M.. **Spreading of liquid drops from a liquid source.** Colloids and Surfaces A: Physicochem. Eng. Aspects, 282, 2006.
- [38] MENCHACA-ROCHA, A.; MARTÍNEZ-DÁVALOS, A. N. R. S.; ZALESKI, S.. **Coalescence of liquid drops by surface tension.** Physical Review E, 63, 2001.

- [39] ANDRIEU, C.; BEYSENS, D. A. N. V. S.; POMEAU, Y.. **Coalescence of sessile drops**. *Journal of Fluid Mechanics*, 453:427–438, 2002.
- [40] RISTENPART, W. D.; MCCALLA, P. M. R. R.; STONE, H. A.. **Coalescence of spreading droplets on a wettable substrate**. *Physical Review Letters*, 97:064501(1–5), 2006.
- [41] BRADLEY, S. G.; STOW, C. D.. **Collisions between Liquid Drops**. *Royal Society of London Philosophical Transactions Series A*, 287:635–675, Jan. 1978.
- [42] MOFFATT, H.. **Behavior of a viscous film on the outer surface of a rotating cylinder**. *Journal de Mecanique*, 16(5):651–673, 1977.
- [43] PUKHNACHEV, V.. **Problems with a free boundary for the Navier-Stokes equations**. *Proc. Autumn Course on Mathematical and Numerical Methods in Fluid Dynamics Ins. Centre for Theor. Phys., Trieste*, 1973.
- [44] RUSCHAK, K. J.; SCRIVEN, L.. **Rimming flow of liquid in a rotating horizontal cylinder**. *Journal of Fluid Mechanics*, 76, 1976.
- [45] CAMPANELLA, O. H.; CERRO, R. L.. **Viscous-flow on the outside of a horizontal rotating cylinder-the roll coating regime with a single fluid**. *Chem. Eng. Sci.*, 39, 1997.
- [46] REISFELD, B.; BANKOFF, S. G.. **Non-isothermal flow of a liquid film on a horizontal cylinder**. *Journal of Fluid Mechanics*, 236:167–196, 1992.
- [47] WILSON, S. D. R.; WILLIAMS, J.. **The flow of a liquid film on the inside of a rotating cylinder, and some related problems**. *Phys. Fluids*, 9, 1997.
- [48] O'BRIEN, S. B. G.; GATH, E. G.. **The location of a shock in rimming flow**. *Phys. Fluids*, 10, 1998.
- [49] DIEBER, J. A.; CERRO, R. L.. **Viscous flow with a free surface inside a horizontal rotating drum. i. hydrodynamics**. *Ind. Eng. Chem. Fundam.*, 15, 1976.
- [50] ORR, F. M.; SCRIVEN, L.. **Rimming flow: numerical simulation of steady, viscous, free-surface flow with surface tension**. *Journal of Fluid Mechanics*, 84, 1978.

- [51] RAJAGOPALAN, D. ; PHILLIPS, R. J. A. R. C. . B. R. A.; BOSE, A.. **The influence of viscoelasticity on the existence of steady solutions in 2-dimensional rimming flow.** *Journal of Fluid Mechanics*, 235:611–642, 1992.
- [52] THORODDSEN, S. T.; MAHADEVAN, L.. **Experimental study of coating flows in a partially-filled horizontally rotating cylinder.** *Experiments in Fluids*, 23:1–13, 1997.
- [53] HOSOI, A. E.; MAHADEVAN, L.. **Axial instability of a free-surface front in a partially filled horizontal rotating cylinder.** *Phys. Fluids*, 11, 1999.
- [54] KARWEIT, M. J.; CORRSIN, S.. **Observations of cellular patterns in a partly filled, horizontal cylinder.** *Phys. Fluids*, 18, 1975.
- [55] RAYLEIGH, J. W. S.. **The theory of sound.** New York, NY, United States: Dover, 1894.
- [56] GOREN, S. L.. **The instability of an annular thread of fluid.** *Journal of Fluid Mechanics*, 12, 1962.
- [57] WEIDNER, D.E.;SCHWARTZ, L. M.. **Simulation of coating layer evolution and drop formation on horizontal cylinders.** *Colloid Interface Sci.*, 187:243–258, 1997.
- [58] KOVAC, J. P.; BALMER, R. T.. **Experimental studies of external hygrocyts.** *J Fluids Eng. Transactions of the ASME*, 102:226–230, 1980.
- [59] PREZIOSI, L.;JOSEPH, D.. **The run-off condition for coating and rimming flows.** *Journal Fluid Mechanics*, 187:99–113, 1988.
- [60] EVANS, P.L.; SCHWARTZ, L. R. R.. **Three-dimensional solutions for coating flow on a rotating horizontal cylinder: Theory and experiment.** *Phys. Fluids*, 17(8):2742–2756, 2004.
- [61] O'BRIEN, S.B.G.;SCHWARTZ, L.. **Theory and modeling of thin film flows.** *Encyclopedia of Surface and Colloid*, p. 5283–5297, 2002.
- [62] EVANS, P.L.; SCHWARTZ, L. R.. **Steady and unsteady solutions for coating flow on a rotating horizontal cylinder: Two-dimensional theoretical and numerical modeling.** *Phys. Fluids*, 16(8):2742–2756, 2004.

- [63] YIANTSIOS, L.; HIGGINS, Q.. **Drop formation on horizontal cylinders.** *Colloid Interface Sci.*, 187:243–258, 1997.
- [64] BRUYN, H. F.. **Crossover between surface tension and gravity-driven instabilities of a thin fluid layer on a horizontal cylinder.** *Phys. Fluids*, 9, 1997.
- [65] GOREN, B. A.. **The instability of an annular thread of fluid.** *Journal Fluid Mechanics*, 12:309–315, 1962.
- [66] FERMIGER, M.; LIMAT, L. W. J. E. B. P.; QUILLET, C.. **Two-dimensional patterns in rayleigh-taylor instability of a thin layer.** *Journal Fluid Mechanics*, 236:349–352, 1992.
- [67] LIMAT, L.; JENFFER, P. D. B. T. E. F. M.; WESTFREID, J. E.. **Gravitational instabilities of thin liquid layers: Dynamics of pattern selection.** *Physica*, 61, 1992.
- [68] BORNSIDE, D. E.; MACOSKO, C. W. S. L. E.. **Spin coating: One-dimensional model.** *J. Appl. Phys.*, 66:5185–5193, 1989.
- [69] SCRIVEN, L.E.; SUSZYNSKI, W. J. C. M. S.. **Coating process fundamentals a short course: Drying and curing.**