



## Fluid Mechanics for Chemical Engineers with Microfluidics and CFD (2nd Edition)

By Wilkes, James O.

Prentice Hall, 2005. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Chapter 1 - Introduction to Fluid Mechanics Chapter 2 - Mass, Energy, and Momentum Balances Chapter 3 - Fluid Friction in Pipes Chapter 4 - Flow in Chemical Engineering Equipment Chapter 5 - Differential Equations of Fluid Mechanics Chapter 6 - Solution of Viscous-Flow Problems Chapter 7 - Laplace's Equations, Irrotational and Porous-Media Flows Chapter 8 - Boundary-Layer and Other Nearly Unidirectional Flows Chapter 9 - Turbulent Flow Chapter 10 - Bubble Motion, Two-Phase Flow, and Fluidization Chapter 11 - Non-Newtonian Fluids Chapter 12 - Microfluidics and Electrokinetic Flow Effects Chapter 13 - An Introduction to Computational Fluid Dynamics and Flowlab Chapter 14 - Femlab for Solving Fluid Mechanics Problems Appendix A: Useful Mathematical Relationships Appendix B: Answers to the True/False Assertions Appendix C: some Vector and Tensor Operations Index The Authors.



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