



Fluid Mechanics for Chemical Engineers (Third Edition)

By Noel De Nevers

McGraw-Hill Education, 2011. Softcover. Book Condition: New. 3rd edition. Fluid Mechanics for Chemical Engineers, third edition retains the characteristics that made this introductory text a success in prior editions. It is still a book that emphasizes material and energy balances and maintains a practical orientation throughout. TABLE OF CONTENTS: 1 Introduction Part I Preliminaries 2 Fluid Statics 3 The Balance Equation and the Mass Balance 4 The First Law of Thermodynamics Part II Flows which are Practically One-Dimensional or can be Treated as Such 5 Bernoulli`s Equation 6 Fluid Friction in Steady One-Dimensional Flow 7 The Momentum Balance 8 One-Dimensional High-Velocity Gas Flow Part III Some Other Topics, Which can be Viewed by the Methods of One-Dimensional Fluid Mechanics 9 Model Studies, Dimensional Analysis, and Similitude 10 Pumps, Compressors, and Turbines 11 Flow Through Porous Media 12 Gas-Liquid Flow 13 Non-Newtonian Fluid Flow in Circular Pipes 14 Surface Forces Part IV Two- and Three-Dimensional Fluid Mechanics 15 Two- and Three-Dimensional Fluid Mechanics 16 Potential Flow 17 The Boundary Layer 18 Turbulence 19 Mixing 20 Computational Fluid Dynamics, (CFD) Appendix A Tables and Charts of Fluid Properties, Pipe Dimensions and Flows, and High-Velocity Gas Flows Appendix B Derivations and Proofs Appendix...



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