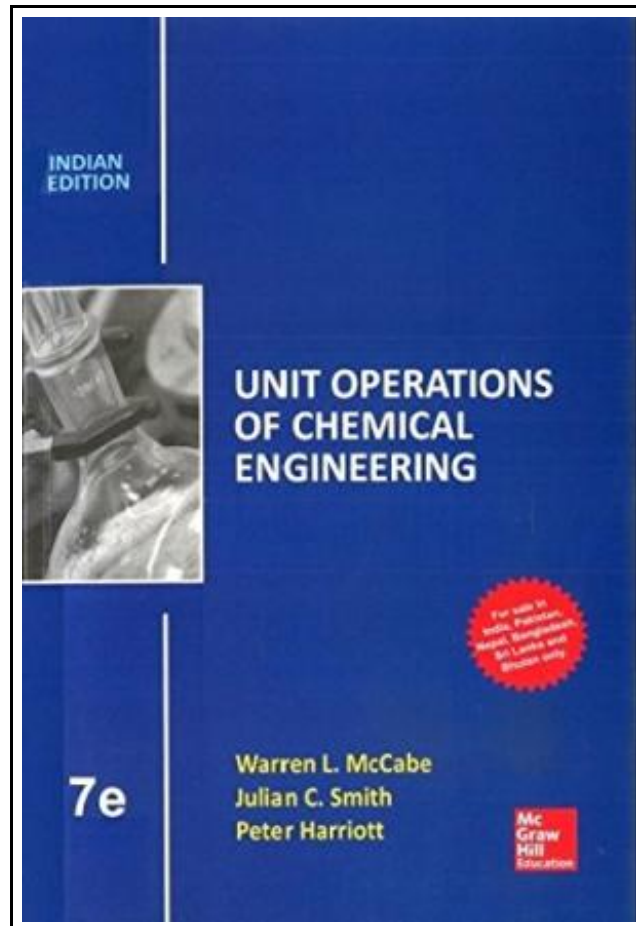


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McGraw Hill Education, 2014. Softcover. Book Condition: New. 5th or later edition. (Indian Edition) Unit Operations of Chemical Engineering, 7th edition continues its lengthy, successful tradition of being one of McGraw-Hill`s oldest texts in the Chemical Engineering Series. Since 1956, this text has been the most comprehensive of the introductory, undergraduate, chemical engineering titles available. Separate chapters are devoted to each of the principle unit operations, grouped into four sections: fluid mechanics, heat transfer, mass transfer and equilibrium stages, and operations involving particulate solids. Now in its seventh edition, the text still contains its balanced treatment of theory and engineering practice, with many practical, illustrative examples included. Almost 30% of the problems have been revised or are new, some of which cover modern topics such as food processing and biotechnology. Other unique topics of this text include diafiltration, adsorption and membrane operations. Contents: Section 1 Introduction 1 Definitions and Principles Section 2 Fluid Mechanics 2 Fluid Statics and Its Applications 3 Fluid Flow Phenomena 4 Basic Equations of Fluid Flow 5 Incompressible Flow in Pipes and Channels 6 Flow of Compressible Fluids 7 Flow past Immersed Objects 8 Transportation and Metering of Fluids 9 Agitation and Mixing of Liquids Section 3 Heat Transfer and Its Applications 10 Heat Transfer by Conduction 11 Principles of Heat Flow in Fluids 12 Heat Transfer to Fluids without Phase Change 13 Heat Transfer to Fluids with Phase Change 14 Radiation Heat Transfer 15 Heat-Exchange Equipment 16 Evaporation Section 4 Mass Transfer and Its Applications 17 Principles of Diffusion and Mass Transfer between Phases 18 Gas Absorption 19 Humidification Operations 20 Equilibrium-Stage Operations 21 Distillation 22 Introduction to Multicomponent Distillation 23 Leaching and Extraction 24 Drying of Solids 25 Fixed-Bed Separatons 26 Membrane Separation Processes 27 Crystallization Section 5 Operations Involving Particulate Solids 28 Properties...



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