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Autore	Lima, Emerson
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Autore	Cheremisinoff Nicholas P
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Nota di contenuto	Cover; Copyright Page; TOCContents; Preface; About the Author; CHChapter 1. Heat Exchange Equipment; Introduction; General Concepts of Heat Transfer; Air Cooled Heat Exchangers; Shell and Tube Type Heat Exchangers; Spiral-Plate Heat Exchangers; Plate-and-Frame

Exchangers; Heat Exchanger Tube Rupture; Condensers; Steam-Driven Absorption Cooling; Closure; Nomenclature; Suggested Readings; CHChapter 2. Evaporative Cooling Equipment; Introduction; Thermal Characteristics; Design Configurations; Components and Materials of Construction; Use of Fans, Motors, and Drives; Water Treatment Services
Glossary of TermsSuggested Readings; CHChapter 3. Evaporating and Drying Equipment; Introduction; Evaporators; Drying Equipment; Crystallization; Suggested Readings; CHChapter 4. Distillation Equipment; Introduction; Overview of Distillation; General Properties of Hydrocarbons; Refinery Operations; Products from Petroleum; Spirits Production; Closure and Recommended Web Sites; CHChapter 5. Mass Separation Equipment; Introduction; Absorption Equipment; Adsorption Equipment; Solvent Extraction; Reverse Osmosis; Suggested Readings; CHChapter 6. Mechanical Separation Equipment; Introduction Filtration EquipmentSedimentation Equipment; Centrifugal Separation Equipment; Suggested Readings; CHChapter 7. Mixing Equipment; Introduction; Mechanical Mixing Equipment; Design Practices; Gas-Solids Contacting; Suggested Readings; Recommended Web Sites; CHChapter 8. Calculations for Select Operations; Introduction; Heat Capacity Ratios for Real Gases; Sizing of Vapor-Liquid Separators; Overall Efficiency of a Combination Boiler; Pump Horsepower Calculations; Pump Efficiency Calculations; Lime Kiln Precoat Filter Estimation; Steam Savings in Multiple Effect Evaporators
Temperature and Latent Heat Estimation for Saturated SteamEstimating Condensate for Flash Tanks; Linear Velocity of Air Through Ducts; Thermal Conductivities of Gases; Determining Pseudocritical Properties; Estimating Heat Exchanger Temperatures; Estimating the Viscosity of Gases; Estimate for Mechanical Desuperheaters; Estimating Pump Head with Negative Suction Pressure; Calculations for Back-Pressure Turbines; Tubeside Fouling Rates in Heat Exchangers; Calculations for Pipe Flows; Recovery in Multicomponent Distillation; Estimating Equilibrium Curves
Estimating Evaporation Losses from Liquified GasesCombustion Air Calculations; Estimating Temperature Profiles in Agitated Tanks; Generalized Equations for Compressors; Batch Distillation: Application of the Rayleigh Equation; IDXIndex

Sommario/riassunto

The Handbook of Chemical Process Equipment is a major reference on process equipment. It provides practical understanding and description of the working principles, intended applications, selection criteria and fundamental design principles for equipment used throughout the process and allied chemical industries.It is an important reference for engineers, and in particular chemical engineers who will use such a volume throughout their studies and careers. Each major unit operation and equipment associated with the operation is described in sufficient detail for the reader to obtain pra