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This book offers an in-depth description of absorption chillers and heat pumps, focusing on relatively simple systems that employ working fluids in the liquid and vapor phase. The book provides a thorough explanation of how thermodynamic and transport properties of working fluid mixtures enable them to influence the performance of absorption systems. The student or engineer who is a newcomer to the field will gain a comprehensive knowledge essential for the design and evaluation of absorption systems. This book establishes a solid background in general thermodynamics for the reader. The properties of working fluid mixtures pertaining to absorption working fluid combinations are discussed, and various thermodynamic diagrams are introduced and explained. Water/lithium-bromide and ammonia/water absorption chillers and heat pumps are described, and their features and characteristics are detailed. Measures for improving efficiency are presented, and internal heat exchange options are analyzed. Absorption Chillers and Heat Pumps contains extensive examples. It also includes a demonstration copy of the Engineering Equation Solver (EES) program and program files for all of the examples in the text. Problems are listed at the end of major chapters. This unique book is a superior upper-level textbook for students, and a valuable reference source for engineers.