



Heat Conversion Systems

Georg Alefeld, Reinhard Radermacher

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Heat Conversion Systems develops the underlying concepts of advanced Rankine-based absorption and compression cycles and introduces the Building Block Approach as a general concept. The Building Block Approach identifies all cycle configurations for a given application to ensure that system designers have available all important alternatives. The book features numerous examples of advanced cycles and includes single- and multi-stage absorption heat pumps and heat transformers and combined systems. The book also discusses single- and multi-stage vapor compression systems with multiple solution circuits, multiple compressors, and cascades. Aspects of working fluid selection and their influence on cycle options, performance evaluation, and estimating procedures for the Coefficient of Performance (COP) are addressed. Cycle analysis based on the Second Laws of Thermodynamics is examined.

Heat Conversion Systems will be an important source for engineers in air-conditioning, heat pumping, refrigeration, and waste heat utilization. It can be used as text in courses on thermodynamics, efficient use of energy, and environmental protection.

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