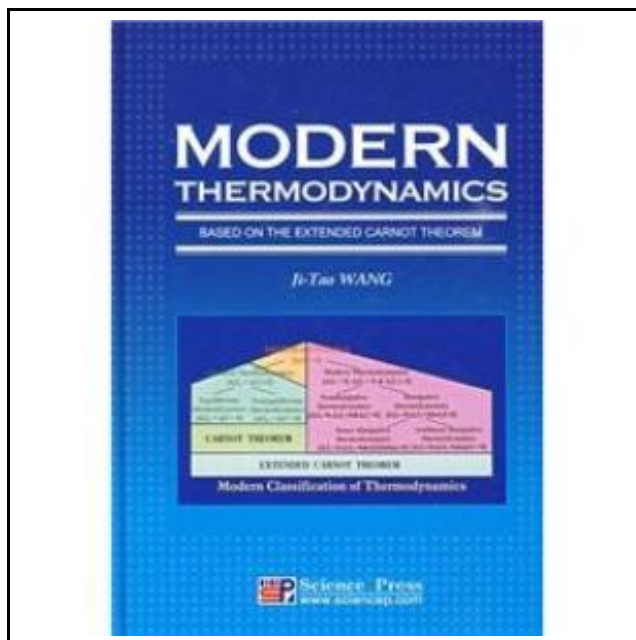


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Hardcover. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Hardcover Pages Number: 278 Language: Simplified Chinese Publisher: Science Press; 1 edition (September 1. 2009). EDUCATION THERMODYNAMICS content Introduction: This book can be used as a textbook in universities and colleges for the modernization of the thermodynamics discipline. There are not too much mathematical deductions in this book. so it is also suitable for readers to read and learn by themselves. Based on the authors experiences. the modernization of the thermodynamics discipline is not easy. so the book is written in three levels. The first level is about 800 words in Preface; the second level is an outline of about 8 000 words in Chapter 1. which was originally a reply in 2006 to a reviewer. a person described in his own words as being through my personal journey through the realm of equilibrium thermodynamics and nonequilibrium thermodynamics and through my own work therein over decades; and the third level is the detailed discussions in other parts of the whole book. Contents: 1 An Outline of Modern Thermodynamics1.1 Challenges to the Second Law of Thermodynamics Coming from Two Sides1.2 Root of Puzzlement: Carnot Theorem1.3 Uncertainty or Incompleteness of Clausius Inequality1.4 Classification of Thermodynamics in the Current 21 st Century1.5 A Typical Case of Nondissipative Thermodynamics: Nonequilibrium Phase Diagrams1. 6 A Typical Case of Dissipative Thermodynamics: Spiral Reactions1.7 Out-of-Thermodynamics for Reciprocal Relations1.8 Out-of-Thermodynamics Model for Dissipative Structures1.9 Dissipation Decrease Theorem1.10 Some Fundamental Concepts and Definitions1.11 Conclusion of this OutlineReferences2 ief Histories of Thermodynamics2.1 Ancient Knowledge on Heat2.2 Carnot Theorem2.3 The Nature of Heat2.4 The First Law of Thermodynamics2.5 Absolute Scale of Temperature2.6 The Second Law of Thermodynamics2.7 Entropy and Entropy Increase Principle2.8 Macroscopic Rules for Collective Motion of a Large...



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