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Edizione	[Second edition.]
Descrizione fisica	1 online resource (1134 p.)
Collana	Computational Mechanics and Applied Analysis
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Soggetti	Thermodynamics Electronic books.
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; Contents; List of Tables in Appendix A; List of Figures in Appendix B; Preface to Second Edition; Nomenclature; Thermolab Excel®-Based Software for Thermodynamic Properties, Flame Temperatures of Fuels, Conversion Units, Math Functions and Other Properties; Four Important Equations in Analysis of Thermal Systems; Chapter 1: Introduction; Chapter 2: First Law of Thermodynamics; Chapter 3: Second Law of Thermodynamics and Entropy; Chapter 4: Availability; Chapter 5: Postulatory (Gibbsian) Thermodynamics; Chapter 6: State Relationships for Real Gases and Liquids Chapter 7: Thermodynamic Properties of Pure FluidsChapter 8: Thermodynamic Properties of Mixtures; Chapter 9: Phase Equilibrium for a Mixture; Chapter 10: Stability; Chapter 11: Chemically Reacting Systems; Chapter 12: Reaction Direction and Chemical Equilibrium; Chapter 13: Availability Analysis for Reacting Systems; Chapter 14: Thermodynamics and Biological Systems; Problems; A Summary of Chapterwise Formulae; Appendix A: Tables; Appendix B: Figures; Bibliography; Back Cover
Sommario/riassunto	Advanced Thermodynamics Engineering, Second Edition is designed for readers who need to understand and apply the engineering physics of thermodynamic concepts. It employs a self-teaching format that reinforces presentation of critical concepts, mathematical relationships, and equations with concrete physical examples and explanations of

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