

1. Record Nr.	UNINA9910460727003321
Autore	Fai Lukong Cornelius
Titolo	Statistical thermodynamics : understanding the properties of macroscopic systems // by Lukong Cornelius Fai and Gary Matthew Wysin
Pubbl/distr/stampa	Boca Raton, FL : , : CRC Press, an imprint of Taylor and Francis, , 2012
ISBN	0-429-08674-1 1-4665-1068-4
Edizione	[First edition.]
Descrizione fisica	1 online resource (537 p.)
Disciplina	536/.7015195
Soggetti	Statistical thermodynamics Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front Cover; Contents; Preface; Authors; Chapter 1 - Basic Principles of Statistical Physics; Chapter 2 - Thermodynamic Functions; Chapter 3 - Canonical Distribution; Chapter 4 - Ideal Gases; Chapter 5 - Quantum Statistics of Ideal Gases; Chapter 6 - Electron Gas in a Magnetic Field; Chapter 7 - Magnetic and Dielectric Materials; Chapter 8 - Lattice Dynamics; Chapter 9 - Condensed Bodies; Chapter 10 - Multiphase Systems; Chapter 11 - Macroscopic Quantum Effects: Superfluid Liquid Helium; Chapter 12 - Nonideal Classical Gases; Chapter 13 - Functional Integration in Statistical Physics ReferencesBack Cover
Sommario/riassunto	Statistical thermodynamics and the related domains of statistical physics and quantum mechanics are very important in many fields of research, including plasmas, rarefied gas dynamics, nuclear systems, lasers, semiconductors, superconductivity, ortho- and para-hydrogen, liquid helium, and so on. Statistical Thermodynamics: Understanding the Properties of Macroscopic Systems provides a detailed overview of how to apply statistical principles to obtain the physical and thermodynamic properties of macroscopic systems.