

1. Record Nr.	UNINA9910454302603321
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Titolo	Introduction to phonons and electrons [[electronic resource] /] / Liang-fu Lou
Pubbl/distr/stampa	Singapore ; ; River Edge, N.J., : World Scientific, c2003
ISBN	1-281-93554-9 9786611935542 981-279-511-1
Descrizione fisica	1 online resource (xiii, 222 p. ) : ill
Disciplina	530.4/16
Soggetti	Phonons Electrons Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	* Crystal Structure * Reciprocal Lattice and X-Ray Diffraction * Lattice Vibrations and Phonons * Thermal Properties of Insulators * Free Electron Fermi Gas * Electron Energy Bands
Sommario/riassunto	This work focuses on phonons and electrons, which the student learns first in solid state physics. The required quantum theory and statistical physics are derived from scratch. Systematic in structure and tutorial in style, the book contains detailed mathematical steps and physical interpretations.