

1. Record Nr.	UNISA996391032003316
Autore	Gibbon Charles <fl. 1589-1604.>
Titolo	Not so new, as true [[electronic resource]] : Being a verie necessarie caueat for all Christians to consider of. VVherein is truelie described the iniquitie of this present time, by occasion of our confused liuing: and iustlie approued the world to be neuer worse, by reason of our contagious leaudnes. By Charles Gibbon
Pubbl/distr/stampa	Imprinted at London, : By Thomas Orwin, dvelling in Paternoster rowe ouer against the signe of the Checker, 1590
Descrizione fisica	[4], 14 leaves
Soggetti	Christian life
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Caption title, B1r reads: A dialogicall discourse concerning the course of this world. Reproduction of the original in the Folger Shakespeare Library.
Sommario/riassunto	eebo-0055

2. Record Nr.	UNINA9911019403503321
Titolo	Thermodynamic properties of solids : experiment and modeling / / edited by Samrath L. Chaplot, Ranjan Mittal, and Narayani Choudhury
Pubbl/distr/stampa	Weinheim, : Wiley-VCH, c2010
ISBN	9786612551376 9781282551374 128255137X 9783527630417 3527630414 9783527630424 3527630422
Descrizione fisica	1 online resource (344 p.)
Classificazione	33.61 33.62 UG 1000 530 PHY 640f
Altri autori (Persone)	ChaplotS. L MittalRanjan ChoudhuryNarayani
Disciplina	541.3/69 621.4021
Soggetti	Thermodynamics Solids - Thermal properties Aufsatzsammlung
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 and index.
Nota di contenuto	Thermodynamic Properties of Solids: Experiment and Modeling; Contents; Preface; List of Contributors; Abbreviations; 1.1 Thermodynamic Properties of Solids: Experiment and Modeling; 1.1 Introduction; 1.2 Spectroscopic Techniques and Semiempirical Theoretical Methods; 1.3 Thermal Measurement Techniques; 1.4 First-Principles Quantum Mechanical Methods; 1.5 Outlook; References; 2

Optical Spectroscopy Methods and High-Pressure-High-Temperature Studies; 2.1 Methods and Principles: Ambient Conditions; 2.1.1 Semiconductors; 2.1.2 q~0 Optical Modes: Concept of Polaritons [4, 5] 2.1.2.1 Maxwell Equations2.1.2.2 Mechanical Equations; 2.1.2.3 Lorentz Approach; 2.1.2.4 Effective Charge/Force Constant; 2.1.2.5 Combined Electrical/Mechanical Equations: Dispersion of Polaritons Modes; 2.1.3 Vibration Spectra; 2.1.3.1 IR Spectroscopies: A Direct Light/Optical-Mode Interaction [4, 5, 11]; 2.1.3.2 Raman Scattering: An Indirect Light/Optical-Mode Interaction [13, 14]; 2.1.3.3 Brillouin Scattering: An Indirect Light/Acoustical-Mode Interaction; 2.1.4 Some Particular Cases; 2.1.4.1 Multioscillator System; 2.1.4.2 Multilayer System [12]

2.1.4.3 Multicomponent System (Composite) [22]2.1.5 Selection Rules [5, 17]; 2.1.5.1 Raman Scattering; 2.1.5.2 IR Absorption; 2.1.5.3 Brillouin Scattering; 2.1.6 When Departing from Pure Crystals . . .; 2.2 Optical Vibrational Spectroscopies Under Extreme Conditions; 2.2.1 A Specific Impact/Identity in the Field; 2.2.1.1 Solid-State Physics; 2.2.1.2 Earth Sciences; 2.2.2 Specificities and Instrumentation for High-Temperature and High-Pressure Investigations; 2.2.2.1 Temperature and Emissivity; 2.2.2.2 High-Pressure Optical Cells, Diamond-Anvil Cells; 2.2.2.3 High-Temperature Instrumentation

2.2.2.4 Brillouin Devices2.2.2.5 Raman Devices; 2.2.2.6 Infrared Devices: Emissivity Measurements (Temperature and Pressure); 2.2.3 Acoustical Modes; 2.2.3.1 General Presentation; 2.2.3.2 Examples; 2.2.4 Optical Modes; 2.2.4.1 Pressure Aspect; 2.2.4.2 Temperature Aspect; 2.3 Perspectives; 2.3.1 Instrumentation; 2.3.1.1 Natural Development of Existing Setups; 2.3.1.2 Innovative Combinations of X-ray and Vibrational Spectroscopies; 2.3.2 Physical Phenomena; 2.3.2.1 Phonons (Zone-Center): A Natural .Mesoscope. into the Alloy Disorder 2.3.2.2 Elucidation of the Mechanism of the Pressure-Induced Phase Transformations2.3.2.3 Glasses; References; 3 Inelastic Neutron Scattering, Lattice Dynamics, Computer Simulation and Thermodynamic Properties; 3.1 Introduction; 3.2 Lattice Dynamics; 3.2.1 Theoretical Formalisms; 3.3 Computational Techniques; 3.4 Thermodynamic Properties of Solids; 3.5 Theory of Inelastic Neutron Scattering; 3.5.1 Inelastic Neutron Scattering from Single Crystals: Phonon Dispersion Relations; 3.5.2 Inelastic Neutron Scattering from Powder Samples: Phonon Density of States

3.6 Experimental Techniques for Inelastic Neutron Scattering

Sommario/riassunto

Recent years have seen a growing interest in the field of thermodynamic properties of solids due to the development of advanced experimental and modeling tools. Predicting structural phase transitions and thermodynamic properties find important applications in condensed matter and materials science research, as well as in interdisciplinary research involving geophysics and Earth Sciences. The present edited book, with contributions from leading researchers around the world, is aimed to meet the need of academic and industrial researchers, graduate students and non-specialists working in these
