

1. Record Nr.	UNINA990000360960403321
Autore	Hömig, H. E.
Titolo	Metallo + acqua : Manuale della corrosione / H. E. Hömig
Pubbl/distr/stampa	Essen : Vulkan-Verlag, 1970
Edizione	[2° ed.]
Descrizione fisica	147 p. ill. 20 cm
Localione	DINCH
Collocazione	04 184-148
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Tradotto dalla II edizione tedesca ed edito a cura del servizio di documentazione "Tecnica Idrologica e Termotecnica" della R. Dona' s.a. s., Milano

2. Record Nr.	UNINA9910634054203321
Titolo	Theory of Defects in Semiconductors [[electronic resource] /] / edited by David A. Drabold, Stefan Estreicher
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2007
ISBN	1-281-39210-3 9786611392109 3-540-33401-7
Edizione	[1st ed. 2007.]
Descrizione fisica	1 online resource (XIV, 295 p. 60 illus.)
Collana	Topics in Applied Physics, , 0303-4216 ; ; 104
Disciplina	620.11295 620.11297
Soggetti	Optical materials Electronics - Materials Condensed matter Lasers Photonics Engineering Optical and Electronic Materials Condensed Matter Physics Optics, Lasers, Photonics, Optical Devices Engineering, general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	1. Defect Theory: An Armchair History -- 2. Supercell Methods for Defect Calculations -- 3. Marker-Method Calculations for Electrical Levels Using Gaussian-orbital Basis-sets -- 4. Dynamical Matrices and Free Energies -- 5. The Calculation of Free Energies in Semiconductors: Defects, Transitions and Phase Diagrams -- 6. Quantum Monte Carlo Techniques and Defects in Semiconductors -- 7. Quasiparticle Calculations for Point Defects at Semiconductor Surfaces -- 8. Multiscale Modelling of Defects in Semiconductors: A Novel Molecular Dynamics Scheme -- 9. Empirical Molecular Dynamics: Possibilities,

Requirements, and Limitations -- 10. Defects in Amorphous Semiconductors: Amorphous Silicon -- 11. Light-induced Effects in Amorphous and Glassy Solids.

Sommario/riassunto

Semiconductor science and technology is the art of defect engineering. The theoretical modeling of defects has improved dramatically over the past decade. These tools are now applied to a wide range of materials issues: quantum dots, buckyballs, spintronics, interfaces, amorphous systems, and many others. This volume presents a coherent and detailed description of the field, and brings together leaders in theoretical research. Today's state-of-the-art, as well as tomorrow's tools, are discussed: the supercell-pseudopotential method, the GW formalism, Quantum Monte Carlo, learn-on-the-fly molecular dynamics, finite-temperature treatments, etc. A wealth of applications are included, from point defects to wafer bonding or the propagation of dislocation.
