1. Record Nr. UNISA996466707603316

Titolo	Computer simulations in condensed matter . Volume 2 : from materials to chemical biology / / edited by Mauro Ferrario, Giovanni Ciccotti, Kurt Binder
Pubbl/distr/stampa	Berlin ; ; Heidelberg : , : Springer, , [2006] ©2006
ISBN	1-280-85223-2 9786610852239 3-540-35284-8
Edizione	[1st ed. 2006.]
Descrizione fisica	1 online resource (607 p.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 704
Disciplina	530.4/10113
Soggetti	Condensed matter - Computer simulation Condensed matter
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Proceedings of a school held at the Ettore Majorana Foundation and Center for Scientific Culture, Erice, Sicily, in July 2005.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Computer Simulations of Supercooled Liquids -- Numerical Simulations of Spin Glasses: Methods and Some Recent Results -- Dipolar Fluctuations in the Bulk and at Interfaces -- Theory and Simulation of Friction and Lubrication -- Simulation of Nanodroplets on Solid Surfaces: Wetting, Spreading and Bridging -- Monte Carlo Simulations of Compressible Ising Models: Do We Understand Them? -- Computer Simulation of Colloidal Suspensions -- Phase Transitions of Model Colloids in External Fields -- Computer Simulation of Liquid Crystals -- Coarse-Grained Models of Complex Fluids at Equilibrium and Under Shear -- Mesoscopic Simulations of Biological Membranes -- Microscopic Elasticity of Complex Systems -- Mesoscopic Simulations for Problems with Hydrodynamics, with Emphasis on Polymer Dynamics -- Polymer Dynamics: Long Time Simulations and Topological Constraints -- Reaction Kinetics of Coarse-Grained Equilibrium Polymers: A Brownian Dynamics Study -- Equilibration and Coarse-Graining Methods for Polymers -- Drug-Target Binding Investigated by Quantum Mechanical/Molecular Mechanical (QM/MM) Methods -- Redox Free Energies from Vertical Energy Gaps: Ab Initio Molecular

	Dynamics Implementation -- Advanced Car–Parrinello Techniques: Path Integrals and Nonadiabaticity in Condensed Matter Simulations -- Evolutionary Design in Biological Physics and Materials Science -- Monte-Carlo Methods in Studies of Protein Folding and Evolution.
Sommario/riassunto	This extensive and comprehensive collection of lectures by world-leading experts in the field introduces and reviews all relevant computer simulation methods and their applications in condensed matter systems. Volume 1, published as LNP 703 (ISBN 3-540-35270-8) is an in-depth introduction to a vast spectrum of computational techniques for statistical mechanical systems of condensed matter. It will enable the graduate student and both the specialist and nonspecialist researcher to get acquainted with the tools necessary to carry out numerical simulations at an advanced level. The present volume is a state-of-the-art survey on numerical experiments carried out for a great number of systems, ranging from materials sciences to chemical biology, such as supercooled liquids, spin glasses, colloids, polymers, liquid crystals, biological membranes and folding proteins.

2.

Record Nr.	UNINA9910299456003321
Autore	Ferronskii V. I (Vasilii Ivanovich)
Titolo	Nuclear Geophysics : Applications in Hydrology, Hydrogeology, Engineering Geology, Agriculture and Environmental Science / / by V.I. Ferronsky
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-12451-X
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (527 p.)
Collana	Springer Geophysics, , 2364-9119
Disciplina	526.1 55 550 551.3
Soggetti	Geophysics Hydrogeology Geotechnical engineering Sedimentology Medical physics Radiation Geophysics/Geodesy Geotechnical Engineering & Applied Earth Sciences Medical and Radiation Physics

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 at the end of each chapters and index.
Nota di contenuto	1. Introduction: Fundamentals of Nuclear Physics -- 2. Methods Based on the Absorption of the Gamma-Ray Beam by Matter -- 3. The Gamma-Ray Back-Scattering Method -- 4. Neutron Back-Scattering Method -- 5. Penetration Logging Methods and Equipment -- 6. Theoretical Basis of Penetration Logging Tests -- 7. Experimental Studies and Interpretation of Penetration Logging Data -- 8. Application of Penetration Logging Techniques in Geoengineering Exploration -- 9. Stable Isotopes in Study of Global Hydrological Cycle -- 10. Cosmogenic Radioisotopes for Study of the Genesis and Dynamics of Water -- 11. Radiogenic Isotopes in Dating of Natural Waters and Sediments -- 12. Radioactive Contamination of Natural Waters -- 13. Induced-Activity Method for Analysis of Rocks and Groundwaters -- Index.
Sommario/riassunto	The fundamentals of methods in nuclear geophysics and their practical applications in engineering geology, hydrology, hydrogeology, agriculture and environmental science are discussed in this book. The methods and apparatus based on absorption and scattering of gamma and neutron radiation for determination of density and soil moisture in natural conditions are presented in Chapters 2, 3, and 4. The theoretical fundamentals and installations of the penetration logging techniques where gamma, gamma-gamma and neutron logging in combination with static penetration form common complexes for engineering geology and hydrogeology exploration without boring holes are described. The developed constructions and practical use penetration logging installations for applications on land and marine shelves are described in Chapters 5, 6, 7, and 8. The physical fundamentals for the use of the natural stable and radioactive isotopes for study of the global hydrological cycle are provided. The experimental data, origin and distribution of cosmogenic and radiogenic isotopes in the oceans, atmospheric moisture, surface and underground waters are presented in Chapters 9, 10, and 11. The sources and conditions of the radioactive contamination of the natural waters are discussed in Chapters 12 and 13. This book will be of interest to scientists and researchers who use nuclear geophysics methods in engineering geology, hydrology, hydrogeology and hydrogeoecology. Lecturers, students, and postgraduates in these subjects will also find it useful.

3. Record Nr. UNINA9910891282603321

Titolo	International journal of algebra
Pubbl/distr/stampa	Ruse, Bulgaria, : Hikari Ltd., [2007]-
ISSN	1314-7595
Edizione	[Online ed.]
Soggetti	Algebra - Research Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed
Sommario/riassunto	The International Journal of Algebra is a new journal to be published from 2007. The aim of the journal is to provide fast publication of refereed, high quality original research papers in all branches of pure and applied algebra.