1. Record Nr.   UNINA9910891612303321

   Titolo   Problemy istorii Ukrainy XIX-pochatku XX stolittia : zbirnyk naukovykh
                    prats

   Pubbl/distr/stampa   Kyiv, : Natsionalna akademiia nauk Ukrainy, Instytut istorii Ukrainy,
                        2000-

   ISSN   2307-5805

   Descrizione fisica   1 online resource

   Soggetti   History
                    Periodicals.
                    Ukraine History 19th century Periodicals
                    Ukraine History 20th century Periodicals
                    Ukraine

   Lingua di pubblicazione   Ukrainian

   Formato   Materiale a stampa

   Livello bibliografico   Periodico

2.

Record Nr.	UNINA9911020117503321
Autore	Leitsmann Roman
Titolo	In-vitro Materials Design : Modern Atomistic Simulation Methods for Engineers
Pubbl/distr/stampa	Hoboken, : Wiley, 2015
ISBN	9783527667376 3527667377 9783527667352 3527667350 9783527667383 3527667385
Descrizione fisica	1 online resource (237 p.)
Altri autori (Persone)	PlanitzPhilipp SchreiberMichael
Disciplina	571.4
Soggetti	Action theory Biophysics Thermodynamics Chemistry Physical Sciences & Mathematics Chemistry - General
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Cover; Title Page; Copyright; Contents; Preface; Part I Basic Physical and Mathematical Principles; Chapter 1 Introduction; Chapter 2 Newtonian Mechanics and Thermodynamics; 2.1 Equation of Motion; 2.2 Energy Conservation; 2.3 Many Body Systems; 2.4 Thermodynamics; Chapter 3 Operators and Fourier Transformations; 3.1 Complex Numbers; 3.2 Operators; 3.3 Fourier Transformation; Chapter 4 Quantum Mechanical Concepts; 4.1 Heuristic Derivation; 4.2 Stationary Schrodinger Equation; 4.3 Expectation Value and Uncertainty Principle; Chapter 5 Chemical Properties and Quantum Theory; 5.1 Atomic Model 5.2 Molecular Orbital TheoryChapter 6 Crystal Symmetry and Bravais Lattice; 6.1 Symmetry in Nature; 6.2 Symmetry in Molecules; 6.3

Sommario/riassunto	An overview of the latest computational materials science methods on an atomic scale. The authors present the physical and mathematical background in sufficient detail for this highly current and important topic, but without unnecessary complications. They focus on approaches with industrial relevance, covering real-life applications taken from concrete projects that range from tribology modeling to performance optimization of integrated circuits. Following an introduction to the fundamentals, the book describes the most relevant approaches, covering such classical simulation methods as simpl