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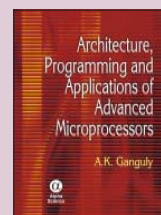
Architecture, Programming and Applications of Advanced Microprocessors

A. K. Ganguly

CONTENTS: Preface / Acknowledgements / Evaluation of Microprocessor / Intel 8086/8088 Microprocessor / Programming the Intel 8086 Microprocessor / Clock Generator and Bus Buffering / Memory Interface / Interrupt / Input Output Interface / Microprocessor Based Systems / Programmable Communication Interface / Intel 80186, 80188 and 80286 Microprocessors / Intel 80386 and 80486 Microprocessors / Pentium Microprocessors / Appendixes / Index.

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Asymptotic Methods in Short-Wavelength Diffraction Theory

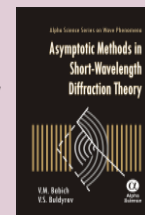
V. M. Babich, V. S. Buldyrev

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Atomic Structure and Collision Processes

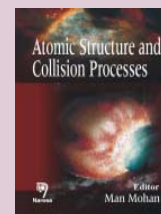
Editor: Man Mohan

NEW

Atomic and Molecular physics play a central role in many other fields such as analytical techniques, biophysics, and chemical & condensed matter physics. Accurate atomic and molecular data is required for understanding Earth, Sun, other's Astrophysical objects (like Stars, Nebulae, Novae, Supernovae) atmospheres and high temperature plasma coming from fusion type of reaction in (ITER) future Tokomak-machines. The main processes of direct interests are data for collisional processes involving electron, proton & photon resulting excitation, ionization, dissociation and recombination. In addition, collision processes is central to the understanding of phenomena such as global warming, and air and water pollution. Not only this branch impacts numerous branches of engineering, from information technology and nanotechnology to bioengineering.

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Classical Mechanics

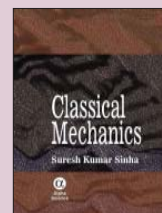
Suresh Kumar Sinha

TEXTBOOK

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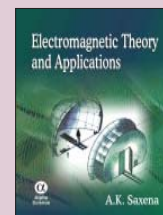
A. K. Saxena

TEXTBOOK

Electromagnetic Theory and Applications aims to serve as a textbook for Physics and Engineering Students. The book covers vector algebra, electrostatics, electric field in dielectrics, boundary value problems, magnetostatics, maxwell equations and wave propagation, waves at an interface, transmission lines and wave guides, retarded potentials and radiating systems.

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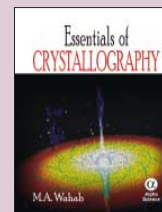
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Avinashi Kapoor, Partha Goswami

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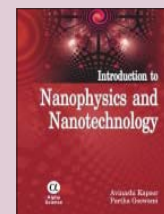
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Vimal Kumar Jain

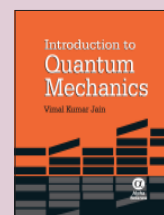
NEW

TEXTBOOK

Introduction to Quantum Mechanics provides the foundation for much of one's future work in atomic, molecular and nuclear physics. The topics included in this book are various experiments that laid the foundation of quantum mechanics and discusses the Schrodinger wave equation, General formalism of Quantum mechanics, Particle in a box, The Step potential and Potential barriers, Angular momentum, Hydrogen atom, Harmonic oscillator, Approximation method for stationary state, Time dependent perturbation theory, Semiclassical theory of radiation, Atoms in external field, Scattering theory, Identical particles.

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A. K. Saxena

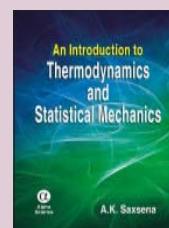
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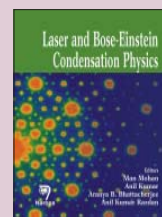
PHYSICS

Laser and Bose Einstein Condensation Physics

Editors: Man Mohan, Anil Kumar, Aranya B. Bhattacharjee, Anil Kumar Razdan



The Laser and Bose-Einstein Condensation (BEC) in condensed matter physics are the new front line topics which have wide applications in the field of defence, optical communications, design of new materials in Condensed matter, precision instrumentation, nanotechnology and bioscience. This book discusses both topics as they are intimately connected. The topics included are laser techniques in the production of ultra cold atoms and Bose-Einstein Condensate, Trapping dynamics of excited antihydrogen atoms, laser technology, strong laser interaction with matter and use of lasers in nanotechnology.



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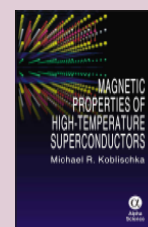
Magnetic Properties of High-Temperature Superconductors

M. R. Koblischka

CONTENTS: Preface / Introduction / Magnetisation Measurements / Measurement Techniques / Flux Penetration Processes / Flux Pinning and Creep / Magnetisation Loops and Peaks / Flux Pinning in HTSC Compounds / Details of the Flux-Penetration Process / References / Index.

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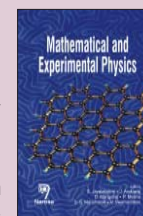
Mathematical and Experimental Physics

Editors: S. Jayalakshmi, J. Arokiaraj, et al.



MATHEMATICAL AND EXPERIMENTAL PHYSICS discusses, in the Mathematical Physics section, Graph Theoretic applications in networks and study of Aminoacids through graphs alongwith the concepts of insulation sequence, dominating sets, partition of the vertex set into subsets with certain properties and association of new types of matrices for the study of Aminoacids.

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D. Karuna Sagar

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S. K. Sinha, T. K. Dey

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Molecular Spectroscopy

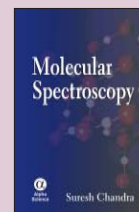
Suresh Chandra

TEXTBOOK

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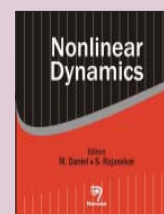
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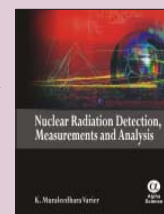
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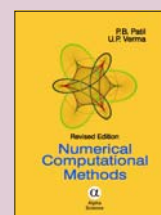
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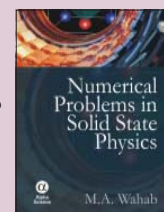
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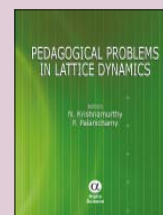
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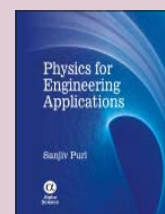
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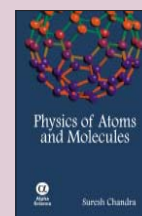
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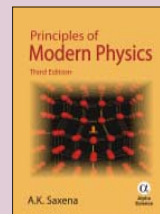
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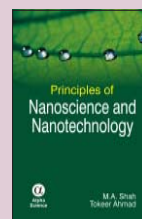
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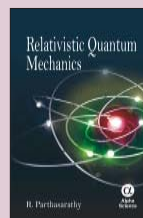
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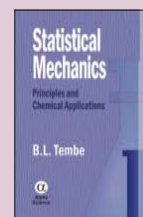
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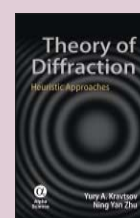
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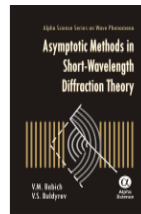
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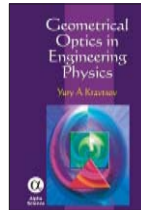
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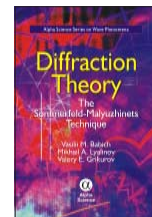
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Diffraction Theory The Sommerfeld-Malyuzhinets Technique

Vasilii M. Babich, Mikhail A. Lyalinov, Valery E. Grikurov



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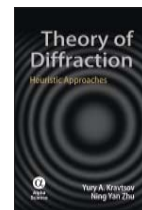
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