
West Bengal State University

Physics Honours

Metal Oxide Defects

Magneto Thermoelectric Power In Heavily Doped Quantized Structures

Nuclear Material Performance

Advances in Computer, Communication and Control

Graphene Science Handbook

Terahertz Biomedical and Healthcare Technologies

CRC Concise Encyclopedia of Nanotechnology

Union List of Learned Periodicals

Recent Trends in Signal and Image Processing

Elastic Constants In Heavily Doped Low Dimensional Materials

Hot Carriers in Semiconductors

Nanomaterials

Nuclear Science Abstracts

Dispersion Relations in Heavily-Doped Nanostructures

Some Advanced Functionalities of Optical Amplifiers

The History of Forensic Science in India
Electricity Pricing
Handbook of Universities in India
Electron Statistics In Quantum Confined Superlattices
Graphene Science Handbook, Six-Volume Set
Recent Trends in Image Processing and Pattern Recognition
Who's who in America
Genomics, Proteomics and Metabolomics in Nutraceuticals and Functional Foods
Sustainable Materials and Green Processing for Energy Conversion
Nonlinear Dynamics and Applications
Know Your State West Bengal
Departments of State, Justice, Commerce, the Judiciary. and Related Agencies
Appropriations for 1967
Contemporary Advances in Innovative and Applicable Information Technology
X-Ray Fluorescence in Biological Sciences
Nature-Inspired Algorithms for Big Data Frameworks
Advanced Microscopy
Handbook of Universities in India
Lantibiotics as Alternative Therapeutics
Fundamentals and Properties of Multifunctional Nanomaterials

Defect-Induced Magnetism in Oxide Semiconductors
Intelligent Innovations in Multimedia Data Engineering and Management
The Science of Nanomaterials
Advanced Informatics for Computing Research
Indian Science Abstracts

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Physics
Honours*

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MATA CODY

Metal Oxide Defects CRC
Press
The book enriches the
literature on different sub-
domains of applied
information technology.
The ICCAIAIT Proceedings
presents the high quality

research papers
presented at ICCAIAIT
2018. The contributions
cover the contemporary
issues in data analytics,
computational
intelligence, nature
inspired computing, cyber
physical systems, cloud
computing, social network
and intelligent computing
on climate change. The
volume is an important
resource for

educationists, academics,
scholars and practitioners
from both the public and
private sectors.
Magneto Thermoelectric
Power In Heavily Doped
Quantized Structures BoD
– Books on Demand
Electricity Pricing:
Regulated, Deregulated
and Smart Grid Systems
presents proven methods
for supplying
uninterrupted, high-

quality electrical power at a reasonable price to the consumer. Illustrating the evolution of the power market from a monopoly to an open access system, this essential text: Covers voltage stability analysis of longitudinal power supply systems using an artificial neural network (ANN) Explains how to improve performance using flexible alternating current transmission systems (FACTS) and high-voltage direct current (HVDC) Takes into account operating constraints as well as

generation cost, line overload, and congestion for expected and inadvertent loading stress Goes beyond FACTS and HVDC to provide multi-objective optimization algorithms for the deregulated power market Proposes the use of stochastic optimization techniques in the smart grid, preparing the reader for future development Electricity Pricing: Regulated, Deregulated and Smart Grid Systems offers practical solutions for improving stability, reliability, and efficiency

in real-time systems while optimizing electricity cost.

Nuclear Material

Performance John Wiley & Sons

Advances in Computer, Communication and ControlSpringer

Advances in Computer, Communication and Control

Calcutta : [s.n.

Sustainable Materials and Green Processing for Energy Conversion

provides a concise reference on green processing and synthesis

of materials required for the next generation of devices used in renewable

devices used in renewable

energy conversion and storage. The book covers the processing of bio-organic materials, environmentally-friendly organic and inorganic sources of materials, synthetic green chemistry, bioresorbable and transient properties of functional materials, and the concept of sustainable material design. The book features chapters by worldwide experts and is an important reference for students, researchers, and engineers interested in gaining extensive

knowledge concerning green processing of sustainable, green functional materials for next generation energy devices. Additionally, functional materials used in energy devices must also be able to degrade and decompose with minimum energy after being disposed of at their end-of-life. Environmental pollution is one of the global crises that endangers the life cycles of living things. There are multiple root causes of this pollution, including industrialization that

demands a huge supply of raw materials for the production of products related to meeting the demands of the Internet-of-Things. As a result, improvement of material and product life cycles by incorporation of green, sustainable principles is essential to address this challenging issue. - Offers a resourceful reference for readers interested in green processing of environmentally-friendly and sustainable materials for energy conversion and storage devices - Focuses on designing of materials

through green-processing concepts - Highlights challenges and opportunities in green processing of renewable materials for energy devices

Graphene Science

Handbook CRC Press

Assessing and improving nuclear material performance is a crucial subject for the sustainability of the nuclear energy and radioactive isotope supplies. This book aims to present research efforts used to identify nuclear materials

performances in different areas. The contributions of esteemed international experts have covered important research aspects in fission and fusion technologies and naturally occurring radioactive materials management. The authors introduced current and anticipated trends toward better performances and mitigating challenges for commercial application of innovative technologies, biological remediation of mine effluents, nuclear fuel performance in power and research fission

reactors, gamma ray spectrometer calibration, and recent advances in understanding the performance of tungsten composite in fusion reactor environment.

Terahertz Biomedical and

Healthcare Technologies

Elsevier

Lantibiotics as Alternative Therapeutics explores alternative therapeutics, lantibiotics and other novel drugs. This book provides concrete information to readers regarding lantibiotics and various types of antimicrobial peptides

with their mode of actions in treating various multidrug resistant organisms. It explains various techniques that are involved in analyzing antimicrobial peptides and their mode of actions. The development of antibiotic resistance has now reached a point of crisis where innovative methods and application of novel compounds and methods are required to prevent the spread of drug resistant infections. Novel compounds exhibit different modes of action to the currently used

mechanism of therapeutics in order to combat against the resistant organisms. Lantibiotics hold considerable potential as a consequence of their unusual structure, unique mechanisms of action and their potency against multi-drug resistant bacteria. This book will be useful for pharmaceutical industry scientists and researchers in microbial and biomedical research as well as graduate and advanced students in microbiology, medical biotechnology, health,

and pharmaceutical sciences. - Includes the biology, molecular interaction with target molecule, putative genes and analytical techniques to isolate and identify compounds - Incorporates relevant case studies to increase understanding - Focuses on recent trends on novel antimicrobial agents and antibiotic resistance research - Discusses new arena of diseases, apart from acute and chronic infections

**CRC Concise
Encyclopedia of**

Nanotechnology

Elsevier

West Bengal is one of the eastern states in India. Bengal is known as Gauda or Vanga an ancient Sanskrit Literature also it's a land of worshipping God. West Bengal is India's 6 th largest state in terms of economic size further it has 12 growth Centers for medium and large scale industries. West Bengal is the 2 nd largest tea growing in India. General knowledge of West Bengal is essential for various competitive examinations

and especially for the students who are appearing for West Bengal Public Service commission (WBPS) and other state level examinations The current edition of 'Know Your State - West Bengal' gives the detailed study of History, Geography, Economy, Polity, Art & Culture, Center and State government welfare schemes and Current Affairs of West Bengal. A systematic Chapter wise study will mark improvement in the performance of the

students, moreover Tables, boxes and figures gives better representation for memorizing the main points. MCQs have been provided at the end of each chapter that helps in understanding and preparing the subject at the exam point-of-view level. This book comes a quick, relevant and easy route for achieving in the examination. TABLE OF CONTENT West Bengal : Basic Information, Ancient History of West Bengal, Medieval History of West Bengal, Modern History

and Popular Movements in West Bengal, Geographical Features and Climate of West Bengal, Climate and Soils of West Bengal, Drainage System of West Bengal, Natural Vegetation of West Bengal, National Parks and Wildlife Sanctuaries, Agriculture and Irrigation in West Bengal, Animal Husbandry in West Bengal, Industries of West Bengal, Minerals and Energy Resources in West Bengal, Transport System of West Bengal, Communication in West Bengal, Administrative

Set-Up of West Bengal, West Bengal Judiciary, Local Self Government in West Bengal, District Profile of West Bengal, Tourism in West Bengal, Music and Dance of West Bengal, Bengali Cinema, Bengali Theatre, Language and Literature of West Bengal, Fairs and Festivals of West Bengal, Education and Health in West Bengal, Castes and Tribes of West Bengal, Sports of West Bengal, Awards and Honours of West Bengal, Great Personalities of West Bengal, Social and

Welfare Schemes of West Bengal, Demographic Profile of West Bengal, Current Affairs [Union List of Learned Periodicals](#) Springer Nature
With the explosion of information traffic, the role of optical amplifiers becomes very significant in fulfilling the demand of faster optical signals and data processing in the field of communication. This book covers different advanced functionalities of optical amplifiers as well as their emerging applications in optical

communication networks. The first chapter deals with an efficient and validated time-domain numerical modelling of semiconductor optical amplifiers (SOAs) and SOA-based circuits, while the second chapter is based on the working of gallium nitride-based semiconductor optical amplifiers. The role of SOAs for the next generation of high-data-rate optical packet-switched network is presented in Chapter 3. Chapter 4 covers the all-optical semiconductor

optical amplifier based on quantum dots (QD-SOA) and its function as an arithmetic processor. In Chapter 5, the authors have presented the role of SOAs in intensity modulation of the optical pulses and their use in deterministic timing jitter and peak pulse power equalization analysis. In Chapter 6, the investigation of broadband S-band to L-band erbium-doped fibre amplifier (EDFA) module is presented, and Chapter 7 includes the optimized design technique of

Yb³⁺/Er³⁺-codoped phosphate microring resonator amplifiers. All selected chapters are very interesting and well organized, and I hope they will be of great value to postgraduate students, researchers, academics and anyone seeking to understand the advanced functionalities of optical amplifiers in the present scenario.

**Recent Trends in
Signal and Image
Processing** Springer

Nature
The CRC Concise
Encyclopedia of

Nanotechnology sets the standard against which all other references of this nature are measured. As such, it is a major resource for both skilled professionals and novices to nanotechnology. The book examines the design, application, and utilization of devices, techniques, and technologies critical to research at the Elastic Constants In Heavily Doped Low Dimensional Materials Arihant Publications India limited
This book presents the

dispersion relation in heavily doped nano-structures. The materials considered are III-V, II-VI, IV-VI, GaP, Ge, Platinum Antimonide, stressed, GaSb, Te, II-V, HgTe/CdTe superlattices and Bismuth Telluride semiconductors. The dispersion relation is discussed under magnetic quantization and on the basis of carrier energy spectra. The influences of magnetic field, magneto inversion, and magneto nipi structures on nano-structures is analyzed. The band structure of optoelectronic materials

changes with photo-excitation in a fundamental way according to newly formulated electron dispersion laws. They control the quantum effect in optoelectronic devices in the presence of light. The measurement of band gaps in optoelectronic materials in the presence of external photo-excitation is displayed. The influences of magnetic quantization, crossed electric and quantizing fields, intense electric fields on the on the

dispersion relation in heavily doped semiconductors and super-lattices are also discussed. This book contains 200 open research problems which form the integral part of the text and are useful for graduate students and researchers. The book is written for post graduate students, researchers and engineers.

Hot Carriers in Semiconductors

Routledge

With the ever-increasing volume of data, proper management of data is a

challenging proposition to scientists and researchers, and given the vast storage space required, multimedia data is no exception in this regard. Scientists and researchers are investing great effort to discover new space-efficient methods for storage and archiving of this data.

Intelligent Innovations in Multimedia Data Engineering and Management provides emerging research exploring the theoretical and practical aspects of storage systems and

computing methods for large forms of data. Featuring coverage on a broad range of topics such as binary image, fuzzy logic, and metaheuristic algorithms, this book is ideally designed for computer engineers, IT professionals, technology developers, academicians, and researchers seeking current research on advancing strategies and computing techniques for various types of data.

Nanomaterials IGI Global
This two-volume set constitutes the refereed

proceedings of the Third International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R) 2020, held in Aurangabad, India, in January 2020. The 78 revised full papers presented were carefully reviewed and selected from 329 submissions. The papers are organized in topical sections in the two volumes. Part I: Computer vision and applications; Data science and machine learning; Document understanding and Recognition. Part II:

Healthcare informatics and medical imaging; Image analysis and recognition; Signal processing and pattern recognition; Image and signal processing in Agriculture.
Nuclear Science Abstracts
Springer
X-Ray Fluorescence in Biological Sciences
Discover a comprehensive exploration of X-ray fluorescence in chemical biology and the clinical and plant sciences In X-Ray Fluorescence in Biological Sciences: Principles,

Instrumentation, and Applications, a team of accomplished researchers delivers extensive coverage of the application of X-ray fluorescence (XRF) in the biological sciences, including chemical biology, clinical science, and plant science. The book also explores recent advances in XRF imaging techniques in these fields. The authors focus on understanding and investigating the intercellular structures and metals in plant cells, with advanced discussions

of recently developed micro-analytical methods, like energy dispersive X-ray fluorescence spectrometry (EDXRF), total reflection X-ray fluorescence spectrometry (TXRF), micro-proton induced X-ray emission (micro-PIXE), electron probe X-ray microanalysis (EPXMA), synchrotron-based X-ray fluorescence microscopy (SXRF, SRIFE, or micro-XRF) and secondary ion mass spectrometry (SIMS). With thorough descriptions of protocols and practical approaches,

the book also includes: A thorough introduction to the historical background and fundamentals of X-ray fluorescence, as well as recent developments in X-ray fluorescence analysis Comprehensive explorations of the general properties, production, and detection of X-rays and the preparation of samples for X-ray fluorescence analysis Practical discussions of the quantification of prepared samples observed under X-ray fluorescence and the relation between

precision and beam size and sample amount In-depth examinations of wavelength-dispersive X-ray fluorescence and living materials Perfect for students and researchers studying the natural and chemical sciences, medical biology, plant physiology, agriculture, and botany, X-Ray Fluorescence in Biological Sciences: Principles, Instrumentation, and Applications will also earn a place in the libraries of researchers at biotechnology companies. *Dispersion Relations in*

*Heavily-Doped
Nanostructures World
Scientific*

This book focuses on soft computing techniques for enhancing voltage security in electrical power networks. Artificial neural networks (ANNs) have been chosen as a soft computing tool, since such networks are eminently suitable for the study of voltage security. The different architectures of the ANNs used in this book are selected on the basis of intelligent criteria rather than by a “brute force”

method of trial and error. The fundamental aim of this book is to present a comprehensive treatise on power system security and the simulation of power system security. The core concepts are substantiated by suitable illustrations and computer methods. The book describes analytical aspects of operation and characteristics of power systems from the viewpoint of voltage security. The text is self-contained and thorough. It is intended for senior undergraduate students

and postgraduate students in electrical engineering. Practicing engineers, Electrical Control Center (ECC) operators and researchers will also find the book useful.

**Some Advanced
Functionalities of
Optical Amplifiers**

Springer

Graphene is the strongest material ever studied and can be an efficient substitute for silicon. This six-volume handbook focuses on fabrication methods, nanostructure and atomic arrangement,

electrical and optical properties, mechanical and chemical properties, size-dependent properties, and applications and industrialization. There is no other major reference work of this scope on the topic of graphene, which is one of the most researched materials of the twenty-first century. The set includes contributions from top researchers in the field and a foreword written by two Nobel laureates in physics. Volumes in the set: K20503 Graphene

Science Handbook: Mechanical and Chemical Properties (ISBN: 9781466591233) K20505 Graphene Science Handbook: Fabrication Methods (ISBN: 9781466591271) K20507 Graphene Science Handbook: Electrical and Optical Properties (ISBN: 9781466591318) K20508 Graphene Science Handbook: Applications and Industrialization (ISBN: 9781466591332) K20509 Graphene Science Handbook: Size-Dependent Properties (ISBN: 9781466591356)

K20510 Graphene Science Handbook: Nanostructure and Atomic Arrangement (ISBN: 9781466591370) The History of Forensic Science in India BoD - Books on Demand This two-volume set (CCIS 1075 and CCIS 1076) constitutes the refereed proceedings of the Third International Conference on Advanced Informatics for Computing Research, ICAICR 2019, held in Shimla, India, in June 2019. The 78 revised full papers presented were carefully reviewed and selected from 382

submissions. The papers are organized in topical sections on computing methodologies; hardware; information systems; networks; software and its engineering.

Electricity Pricing Elsevier
The concepts of the Electron Statistics (ES) and the ES dependent electronic properties are basic pillars in semiconductor electronics and this first-of-its-kind book deals with the said concepts in doping superlattices (SLs), quantum well, quantum wire and quantum dot

SLs, effective mass SLs, SLs with graded interfaces and Fibonacci SLs under different physical conditions respectively. The influences of intense radiation and strong electric fields under said concepts have been considered together with the heavily doped SLs in this context on the basis of newly formulated the electron energy spectra in all the cases. We have suggested experimental determinations of the Einstein relation for the Diffusivity-Mobility ratio, the Debye screening

length, Elastic Constants and the content of this book finds 25 different applications in the arena of nanoscience and nanotechnology. This book contains hundred open research problems which form the integral part of the text and are useful for both PhD aspirants and researchers. It is written for post graduate students of various departments of different academic organizations, engineers and professionals in the fields of solid state electronics, materials science, solid

state sciences, nano-science, nanotechnology and nano materials in general.

Handbook of Universities in India Springer

A comprehensive account of the latest developments in the rapidly expanding area of Semiconductor Technology. Main topics covered include real space transfer/heterostructures, ultrafast studies, optical studies, transport theory, devices, ballistic transport, scattering processes and hot

phonons, tunnelling, far infrared and magnetic field studies and impact ionization/noise/chaos. Other aspects include the use of femtosecond lasers in investigating transient hot carrier effects on femtosecond timescales, magnetotransport and carrier-carrier interactions.

Electron Statistics In Quantum Confined Superlattices World Scientific

This book presents fascinating, state-of-the-art research findings in the field of signal and

image processing. It includes conference papers covering a wide range of signal processing applications involving filtering, encoding, classification, segmentation, clustering, feature extraction, denoising, watermarking, object recognition, reconstruction and fractal analysis. It addresses various types of signals, such as image, video, speech, non-speech audio, handwritten text, geometric diagram, ECG and EMG signals; MRI, PET and CT scan images; THz

signals; solar wind speed signals (SWS); and photoplethysmogram (PPG) signals, and demonstrates how new paradigms of intelligent computing, like quantum computing, can be applied to process and analyze signals precisely and effectively. The book also discusses applications of hybrid methods, algorithms and image filters, which are proving to be better than the individual techniques or algorithms.

Graphene Science Handbook, Six-Volume Set

CRC Press
This pioneering monograph solely deals with the Magneto Thermoelectric Power (MTP) in Heavily Doped (HD) Quantized Structures. The materials considered range from HD quantum confined nonlinear optical materials to HgTe/CdTe HD superlattices with graded interfaces and HD effective mass superlattices under magnetic quantization. An important concept of the measurement of the band gap in HD optoelectronic

materials in the presence of external photo-excitation has been discussed in this perspective. The influences of magnetic quantization, crossed electric and quantizing fields, the intense electric field on the TPM in HD semiconductors and superlattices are also discussed. This book contains 200 open research problems which form the integral part of the text and are useful for both PhD aspirants and researchers in the various fields for which this

particular series is dedicated.

Best Sellers - Books :

- [Stop Overthinking: 23 Techniques To Relieve Stress, Stop Negative Spirals, Declutter Your Mind, And Focus On The Present \(the](#)
- [Guess How Much I Love You By Sam Mcbratney](#)
- [The Wager: A Tale Of Shipwreck, Mutiny And Murder](#)
- [Regretting You](#)
- [The Courage To Be Free: Florida's Blueprint For America's Revival By Ron Desantis](#)
- [The Mountain Is You: Transforming Self-sabotage Into Self-mastery By Brianna Wiest](#)
- [The Last Thing He Told Me: A Novel By Laura Dave](#)
- [Think And Grow Rich: The Landmark Bestseller Now Revised And Updated For The 21st Century \(think And Grow Rich Series\) By Napoleon Hill](#)
- [Meditations: A New Translation](#)
- [Baking Yesteryear: The Best Recipes From The 1900s To The 1980s By B. Dylan Hollis](#)