
Dutta Pal Guchhait

Physics Book

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Select Proceedings of ICRDSI 2019

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Proceedings of ESIC 2020

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Proceedings of CIPR 2021

Anthropogeomorphology of Bhagirathi-Hooghly

River System in India
Electronic Systems and Intelligent Computing
Concepts Of Physics
Nanomaterials for Solar Cell Applications
Modern Organic Synthesis
Photovoltaic Science and Technology
Advances in Computer, Communication and
Control
Fundamentals of Physics, Alternate Edition -
Preliminary part 3
A Text-book on the Elements of Physics
Modern Techniques of Spectroscopy
Clay-Polymer Nanocomposites
The Elements of Physics
Advances in Urbanism, Smart Cities, and
Sustainability
Properties and Applications of Polymer
Nanocomposites
Proceedings of IWPSD 2017
Chromic Phenomena
PART 1
GCE `O' Level Physics Matters
The Physics of Semiconductor Devices
ICCWC 2021
Understanding Physics

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**LEONIDAS
SWANSON**

John Wiley & Sons

The book, 'Laser
Physics and
Technology', addresses
fundamentals of laser
physics, representative
laser systems and

techniques, and some important applications of lasers. The present volume is a collection of articles based on some of the lectures delivered at the School on 'Laser Physics and Technology' organized at Raja Ramanna Centre for Advanced Technology during March, 12-30, 2012. The objective of the School was to provide an in-depth knowledge of the important aspects of laser physics and technology to doctoral students and young researchers and motivate them for further work in this area. In keeping with this objective, the fourteen chapters, written by leading Indian experts, based on the lectures delivered by them at the School, provide along with class room

type coverage of the fundamentals of the field, a brief review of the current status of the field. The book will be useful for doctoral students and young scientists who are embarking on a research in this area as well as to professionals who would be interested in knowing the current state of the field particularly in Indian context.

**Amazing
Micrometeorites and
Their Terrestrial
Imposters** Springer

This book comprises select peer-reviewed proceedings of the International Conference on Recent Developments in Sustainable Infrastructure (ICRDSI) 2019. The topics span over all major disciplines of civil engineering with

regard to sustainable development of infrastructure and innovation in construction materials, especially concrete. The book covers numerical and analytical studies on various topics such as composite and sandwiched structures, green building, groundwater modeling, rainwater harvesting, soil dynamics, seismic resistance and control of structures, waste management, structural health monitoring, and geo-environmental engineering. This book will be useful for students, researchers and professionals working in sustainable technologies in civil engineering.

Cyber Intelligence and Information Retrieval
Laxmi Publications

Nanomaterials for Solar Cell Applications provides a review of recent developments in the field of nanomaterials based solar cells. It begins with a discussion of the fundamentals of nanomaterials for solar cells, including a discussion of lifecycle assessments and characterization techniques. Next, it reviews various types of solar cells, i.e., Thin film, Metal-oxide, Nanowire, Nanorod and Nanoporous materials, and more. Other topics covered include a review of quantum dot sensitized and perovskite and polymer nanocomposites-based solar cells. This book is an ideal resource for those working in this evolving field of nanomaterials and renewable energy.

Provides a well-organized approach to the use of nanomaterials for solar cell applications. Discusses the synthesis, characterization and applications of traditional and new material. Includes coverage of emerging nanomaterials, such as graphene, graphene-derivatives and perovskites. *Select Proceedings of ICRDSI 2019* Springer. Chromic or colour related phenomena are produced in response to a chemical or physical stimulus. This new edition will update the information on all those areas where chemicals or materials interact with light to produce colour, a colour change, or luminescence especially in the

imaging, analysis, lighting and display areas. The book has been restructured to show greater emphasis on applications where 'coloured' compounds are used to transfer energy or manipulate light in some way therefore reducing the details on classical dyes and pigments. In the past eight years, since the previous edition, there has been a remarkable increase in the number of papers and reviews being produced reflecting the growth of interest in this area. This ongoing research interest is matched by a large number of new technological applications gaining commercial value covering e.g. biomedical areas, energy, data storage, physical colour, bio-

inspired materials and photonics. This book appeals to industrial chemists, professionals, postgraduates and as high level recommended reading for colour technology courses.

Comprehensive Practical Chemistry XII
MDPI

Worldwide energy and food crises are spotlighting the importance of bio-based products – an area many are calling on for solutions to these shortages.

Biocatalysis and Agricultural Biotechnology encapsulates the cutting-edge advances in the field with contributions from more than 50 international experts comprising sectors of academia, industry,

and government research institutes, a virtual Who's Who among biocatalysis scientists. Created Under the Editorial Guidance of Leading Biotechnology Experts With the aid of numerous graphs and illustrations, this authoritative reference documents such important advances as: Cloning and characterization of Kennedy pathway acyltransferases Engineering of plants for industrial uses New approaches from acquired tolerance to the biotic and abiotic stress of economically important crops This comprehensive text also explores a variety of bio-based industrial products, including: The modification of enzyme character through gene

manipulation The biocatalytic synthesis of chiral intermediates for drug development The use of Omega-3 phospholipid nano capsules as effective forms for transporting immune response modifiers Providing in-depth reviews of this ancient field and its modern-day advances, Biocatalysis and Agricultural Biotechnology is an invaluable lab reference for teachers, graduate students, and industrial scientists conducting research in the biosciences.

Signs and Wonders in Ministry Today

Cambridge University Press

The book highlights recent developments in the field of spectroscopy by providing the readers with an updated and

high-level of overview. The focus of this book is on the introduction to concepts of modern spectroscopic techniques, recent technological innovations in this field, and current examples of applications to molecules and materials relevant for academia and industry. The book will be beneficial to researchers from various branches of science and technology, and is intended to point them to modern techniques, which might be useful for their specific problems. Spectroscopic techniques, that are discussed include, UV-Visible absorption spectroscopy, XPS, Raman spectroscopy, SERS, TERS, CARS, IR

absorption spectroscopy, SFG, LIBS, Quantum cascade laser (QCL) spectroscopy, fluorescence spectroscopy, ellipsometry, cavity-enhanced absorption spectroscopy, such as cavity ring-down spectroscopy (CRDS) and evanescent wave-CRDS both in gas and condensed phases, time-resolved spectroscopy etc. Applications introduced in the different chapters demonstrates the usefulness of the spectroscopic techniques for the characterization of fundamental properties of molecules, e.g. in connection with environmental impact, bio-activity, or usefulness for pharmaceutical drugs, and materials

important e.g. for nano-science, nuclear chemistry, or bio-applications. The book presents how spectroscopic techniques can help to better understand substances, which have also great impact on questions of social and economic relevance (environment, alternative energy, etc.).

Numerical Chemistry

Springer Nature

"Discusses the principles of operation of photovoltaic devices, their limitations, choice of materials and maximum efficiencies"-

Biocatalysis and

Agricultural

Biotechnology Taylor & Francis

This book features high-quality research

papers presented at the 3rd International Conference on Computational Intelligence in Pattern Recognition (CIPR 2021), held at the Institute of Engineering and Management, Kolkata, West Bengal, India, on 24 - 25 April 2021. It includes practical development experiences in various areas of data analysis and pattern recognition, focusing on soft computing technologies, clustering and classification algorithms, rough set and fuzzy set theory, evolutionary computations, neural science and neural network systems, image processing, combinatorial pattern matching, social network analysis, audio and video data

analysis, data mining in dynamic environments, bioinformatics, hybrid computing, big data analytics and deep learning. It also provides innovative solutions to the challenges in these areas and discusses recent developments.

Proceedings of the School on Laser Physics & Technology, Indore, India, March 12-30, 2012 Voyageur Press (MN)

This book gathers a collection of high-quality peer-reviewed research papers presented at International Conference on Cyber Intelligence and Information Retrieval (CIIR 2021), held at Institute of Engineering & Management, Kolkata, India during 20-21 May 2021. The

book covers research papers in the field of privacy and security in the cloud, data loss prevention and recovery, high-performance networks, network security and cryptography, image and signal processing, artificial immune systems, information and network security, data science techniques and applications, data warehousing and data mining, data mining in dynamic environment, higher-order neural computing, rough set and fuzzy set theory, and nature-inspired computing techniques.

Urban Overheating - Progress on Mitigation Science and Engineering Applications Springer Nature

A multidisciplinary overview of bio-derived

solvent applications, life cycle analysis, and strategies required for industrial commercialization This book provides the first and only comprehensive review of the state-of-the-science in bio-derived solvents. Drawing on their own pioneering work in the field, as well as an exhaustive survey of the world literature on the subject, the authors cover all the bases—from bio-derived solvent applications to life cycle analysis to strategies for industrial commercialization—for researchers and professional chemists working across a range of industries. In the increasingly critical area of sustainable chemistry, the search for new and better

green solvents has become a top priority. Thanks to their renewability, biodegradability and low toxicity, as well as their potential to promote advantageous organic reactions, green solvents offer the promise of significantly reducing the pernicious effects of chemical processes on human health and the environment. Following an overview of the current solvents markets and the challenges and opportunities presented by bio-derived solvents, a series of dedicated chapters cover all significant classes of solvent arranged by origin and/or chemical structure. Throughout, real-world examples are used to help demonstrate the

various advantages, drawbacks, and limitations of each class of solvent. Topics covered include: The commercial potential of various renewably sourced solvents, such as glycerol The various advantages and disadvantages of bio-derived versus petroleum-based solvents Renewably-sourced and waste-derived solvents in the design of eco-efficient processes Life cycle assessment and predictive methods for bio-based solvents Industrial and commercial viability of bio-based solvents now and in the years ahead Potential and limitations of methodologies involving bio-derived solvents New developments and emerging trends in the

field and the shape of things to come. Considering the vast potential for new and better products suggested by recent developments in this exciting field, Bio-Based Solvents will be a welcome resource among students and researchers in catalysis, organic synthesis, electrochemistry, and pharmaceuticals, as well as industrial chemists involved in manufacturing processes and formulation, and policy makers.

For High Schools and Academies John Wiley & Sons
The Bhagirathi-Hooghly Basin in India is one of the most densely populated regions in the world and is undergoing rapid transformation of its

natural landscape induced by human interventions, such as mushrooming of dams and barrages, deforestation, and urbanization. Human activities and interventions on basin landforms and the processes that shape those landforms have accelerated at an alarming rate. This book uses spatio-temporal analysis to understand the major anthropogenic signatures on land use and land cover changes and the impact these activities have on the landforms and processes of the Bhagirathi-Hooghly River and its sub-basins. It answers the what, where, why, and how of the anthropogenic signatures involved. Recent case studies on

the impact of anthropogenic signatures on fluvial forms and processes make this book a useful resource for students and researchers in the earth sciences, local governments, urban planners, and all concerned with rural developments.

Features: Explores for the first time the new concept of anthropogeomorphology for the river basin—an emerging field

Analyses the impact of anthropogenic activities, especially the construction of dams and reservoirs, and urbanization on major fluvial landscapes using advanced geospatial modelling techniques

Investigates human interference in river

systems, their effects on the dynamics of the river, and the livelihoods of the people residing along the river

Addresses issues related to geology, geomorphology, geography, planning, land use, and land management areas

Fills the need for data-driven governance and policy decisions for the future of urban-industrial growth in India.

Modern Approach To Chemical Calculations

An Introduction To The Mole Concept Springer

Despite a number of books on biophotonics imaging for medical diagnostics and therapy, the field still lacks a comprehensive imaging book that describes state-of-the-art biophotonics imaging approaches

intensively developed in recent years. Addressing this shortfall, *Advanced Biophotonics: Tissue Optical Sectioning* presents contemporary methods and applications of biophotonics imaging. Gathering research otherwise scattered in numerous physical, chemical, biophysical, and biomedical journals, the book helps researchers, bioengineers, and medical doctors understand major recent bioimaging technologies and the underlying biophotonics science. Well-known international experts explore a variety of "hot" biomedical optics and biophotonics problems, including the use of photoacoustic imaging to investigate

the molecular and cellular processes in living systems. The book also covers Monte Carlo modeling, tissue optics and tissue optical clearing, nonlinear optical microscopy, various aspects of optical coherence tomography, multimodal tomography, adaptive optics, and signal imaging. With 58 color images, this book represents a valuable contribution to the biomedical and biophotonics literature. Designed for researchers and practitioners in biophotonics, the book is also a useful resource for scientists in laser physics and technology, fiber optics, spectroscopy, materials science, biology, and medicine

as well as students studying biomedical physics and engineering, biomedical optics, and biophotonics.

Advanced Biophotonics
Springer

A comprehensive and unified introduction to the science of energy sources, uses, and systems for students, scientists, engineers, and professionals.

A Biweekly Cryogenics Current Awareness Service
Springer

Salient Features Of This New Edition : * It Is Thoroughly Revised, Enlarged, And Updated Keeping In View The New Syllabus Introduced By The Council Of Higher Secondary Education. Volume Of The Book Contains Mechanics, General Properties Of Matter, Heat And Thermodynamics, And

Vibrations And Waves.

* Volume Ii Includes Optics, Electricity And Magnetism, And Modern Physics. * The Subject Is Presented Herein In A Clear And Concise Way With Illustrations From The Modern Technologically Advanced World. The Language Is Simple And Lucid. * Care Has Been Taken To Expose The Students To Different Systems Of Units, Including Si. * Various Types Of Problems Have Been Solved. Numerous Questions And Problems Have Also Been Set As Exercises For The Students. Most Of Them Have Been Carefully Selected From Recent Examination Papers. * A Number Of Interesting Objectives (With Answers) Have Been Included To Help

The Students In Joint Entrance Examinations.

* Many Harder Problems Particularly Meant For Competitive Examinations Have Been Incorporated. A Number Of These Problems Have Been Solved, And The Rest Are Left As Exercises For The Students.

Tissue Optical

Sectioning Oxford

University Press, USA

The book discusses the recent research trends in various sub-domains of computing, communication and control. It includes research papers presented at the First International Conference on Emerging Trends in Engineering and Science. Focusing on areas such as optimization techniques, game theory, supply chain,

green computing, 5g networks, Internet of Things, social networks, power electronics and robotics, it is a useful resource for academics and researchers alike.

RUDIMENTS OF MODERN COMPUTER APPLICATION

Cambridge University Press

"While technology is developing at a fast pace, urban planners and cities are still behind in finding effective ways to use technology to address citizen's needs.

Multiple aspects of sustainable urbanism are brought together in this book along with advanced technologies and their connections to urban planning and management. It integrates urban studies, smart cities, AI, IoT, remote sensing

and GIS. Highlights also land use planning, spatial planning, and ecosystem-based information to improve economic opportunities. Urban planners and engineers will understand the use of AI in disaster management and the use of GIS in finding suitable landfill sites for sustainable waste management"--
Proceedings of ESIC 2020 PHI Learning Pvt. Ltd.

Physics : Textbook For Class Xi
 The Physics of Energy
 Cambridge University Press

Laser Physics and Technology
 New Age International

This book disseminates the current knowledge of semiconductor physics and its applications across the scientific community. It is based on a biennial

workshop that provides the participating research groups with a stimulating platform for interaction and collaboration with colleagues from the same scientific community. The book discusses the latest developments in the field of III-nitrides; materials & devices, compound semiconductors, VLSI technology, optoelectronics, sensors, photovoltaics, crystal growth, epitaxy and characterization, graphene and other 2D materials and organic semiconductors.

Proceedings of CIPR 2021 Wiley

This book includes high-quality papers presented at Proceedings of First International Conference on Computational

Electronics for Wireless Communications (ICWC 2021), held at National Institute of Technology, Kurukshetra, Haryana, India, during June 11-12, 2021. The book presents original research work of academics and industry professionals to exchange their knowledge of the state-of-the-art research and development in computational electronics with an emphasis on wireless communications. The topics covered in the book are radio frequency and microwave, signal processing, microelectronics and wireless networks.

Anthropogeomorphology of Bhagirathi-Hooghly River System in India

Springer

This book presents

selected, high-quality research papers from the International Conference on Electronic Systems and Intelligent Computing (ESIC 2020), held at NIT Yupia, Arunachal Pradesh, India, on 2 - 4 March 2020.

Discussing the latest challenges and solutions in the field of smart computing, cyber-physical systems and intelligent technologies, it includes papers based on original theoretical, practical and experimental simulations, developments, applications, measurements, and testing. The applications and solutions featured provide valuable reference material for future product development.

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