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Smart Technologies for Energy and Environmental Sustainability

CRC Press

This textbook fills the gap between the very basic and the highly advanced volumes that are widely available on the subject. It offers a concise but comprehensive overview of a number of topics, like general relativity, fission and fusion, which are otherwise only available with much more detail in other textbooks. Providing a general introduction to the underlying concepts

(relativity, fission and fusion, fundamental forces), it allows readers to develop an idea of what these two research fields really involve. The book uses real-world examples to make the subject more attractive and encourage the use of mathematical formulae. Besides short scientists' biographies, diagrams, end-of-chapter problems and worked solutions are also included. Intended mainly for students of scientific disciplines such as physics and chemistry who want to learn about

the subject and/or the related techniques, it is also useful to high school teachers wanting to refresh or update their knowledge and to interested non-experts. [\(Free Sample\) 34 Years NTA NEET \(UG\) BIOLOGY Chapterwise & Topicwise Solved Papers with Value Added Notes \(2021 - 1988\) 16th Edition](#) CRC Press
S Chand's ISC Mathematics is structured according to the latest syllabus as per the new CISCE(Council for the Indian School Certificate

Examinations), New Delhi, for ISC students taking classes XI & XII examinations.

Citizen Empowerment through Digital

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Publication

Fractional calculus is used to model many real-life situations from science and engineering. The book includes different topics associated with such equations and their relevance and significance in various scientific areas of study and research. In this book

readers will find several important and useful methods and techniques for solving various types of fractional-order models in science and engineering. The book should be useful for graduate students, PhD students, researchers and educators interested in mathematical modelling, physical sciences, engineering sciences, applied mathematical sciences, applied sciences, and so on. This Handbook: Provides reliable methods for solving fractional-order

models in science and engineering. Contains efficient numerical methods and algorithms for engineering-related equations. Contains comparison of various methods for accuracy and validity. Demonstrates the applicability of fractional calculus in science and engineering. Examines qualitative as well as quantitative properties of solutions of various types of science- and engineering-related equations. Readers will find this book to be useful and valuable in increasing

and updating their knowledge in this field and will be it will be helpful for engineers, mathematicians, scientist and researchers working on various real-life problems.

Gateway to Science — Physics S. Chand Publishing

This book presents a comprehensive review of structural properties and phase transition phenomena in lyotropic mixtures. It includes a wealth of experimental results, in addition to the main theoretical models

and a number of technological applications, such as cosmetics, detergents and techniques of oil recovery. It is suitable for use as a pedagogical introduction to the subject.

Introduction to Nuclear and Particle Physics

Nageen Prakshan Pvt Ltd Competition Science Vision (monthly magazine) is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in

India. Well-qualified professionals of Physics, Chemistry, Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to-the-point study material for aspiring candidates. The magazine covers General Knowledge, Science and Technology news, Interviews of toppers of examinations, study material of Physics, Chemistry, Zoology and Botany with model papers, reasoning test questions, facts, quiz

contest, general awareness and mental ability test in every monthly issue.

Materials to Circuits S.
Chand Publishing

The main focus of the book is to implement wavelet based transform methods for solving problems of fractional order partial differential equations arising in modelling real physical phenomena. It explores analytical and numerical approximate solution obtained by wavelet methods for both classical and fractional order

partial differential equations.

The Effects of Dust and Heat on Photovoltaic Modules: Impacts and Solutions PHI Learning Pvt. Ltd.

This text book is primarily intended for students who are preparing for the entrance tests of IIT-JEE/NEET/AIIMS and other esteemed colleges in same fields. This text is equally useful to the students preparing for their school exams. Our main goals in writing this text book are to present the basic concepts and

principles of physics that students need to know for their competitive exams.

1. to provide a balance of quantitative reasoning and conceptual understanding, with special attention to concepts that have been causing difficulties to student in understanding the concepts. 2. to develop students' problem-solving skills and confidence in a systematic manner. 3. to motivate students by integrating real-world examples that build upon their everyday

experiences. Main Features of the Book- 1. Every concept is up to the mark and it is given in student friendly language with various solved problems. The solution is provided with problem solving approach and discussion. 2. Checkpoint questions have been added to applicable sections of the text to allow students to pause and test their understanding of the concept explored within the current section. The answers and solutions to the Checkpoints are given

in answer keys, at the end of the chapter, so that students can confirm their knowledge without jumping too quickly to the provided answer. 3. Special attention is given to all tricky topics (like-centripetal and tangential acceleration, uniform circular motion vs. projectile motion, relative angular velocity, centripetal and centrifugal force, unbanked and banked curves, motion in a vertical circle, Coriolis force (optional), effect of rotation of earth on apparent weight and the

physics of artificial gravity), so that student can easily solve them with fun. 4. To test the understanding level of students, multiple choice questions, conceptual questions, practice problems with previous years JEE Main and Advanced problems are provided at the end of the whole discussion. Number of dots indicates level of problem difficulty. Straightforward problems (basic level) are indicated by single dot (●), intermediate problems (JEE mains and NEET

level) are indicated by double dots (●●), whereas challenging problems (advanced level) are indicated by three dots (●●●). Answer keys with hints and solutions are provided at the end of the chapter.

Competition Science Vision Springer Science & Business Media
Competition Science Vision (monthly magazine) is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance

examination students in India. Well-qualified professionals of Physics, Chemistry, Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to-the-point study material for aspiring candidates. The magazine covers General Knowledge, Science and Technology news, Interviews of toppers of examinations, study material of Physics, Chemistry, Zoology and Botany with model papers, reasoning test

questions, facts, quiz contest, general awareness and mental ability test in every monthly issue.

ISC Physics -XI SANJAY KUMAR

34 Years NEET BIOLOGY Chapterwise + Topicwise Solved Papers with Value Added Notes is the thoroughly revised & updated 16th edition and it contains the past year papers of NEET 2021 to 1988 distributed in 38 Chapters. • The Questions have been arranged from 2021 to 1988 such that the students encounter

the latest questions first.

- Another new feature added in this edition is the classification of all Chapters in Botany & Zoology as per NEET 2021.
- Further each chapter has been divided into 3-4 Topics each thus making it a total of 128 Topics.
- The Topics have been arranged exactly in accordance to the NCERT books so as to make it 100% convenient to Class 11 & 12 students.
- The fully solved CBSE Mains papers of 2011 & 2012 (the only Objective CBSE Mains paper held) have

also been incorporated in the book topic-wise.

- The book contains 37 Papers including the Karnataka 2013, Rescheduled 2015, 2016 Ph-II, Odisha 2019 & 2020 Ph-II Papers.
- The detailed solutions of all questions are provided at the end of each chapter to bring conceptual clarity.
- The book contains around 3620+ MILESTONE PROBLEMS IN BIOLOGY.

Service-Driven Approaches to Architecture and Enterprise Integration
Cambridge University Press

This book will strengthen a student's grasp of the laws of physics by applying them to practical situations, and problems that yield more easily to intuitive insight than brute-force methods and complex mathematics. These intriguing problems, chosen almost exclusively from classical (non-quantum) physics, are posed in accessible non-technical language requiring the student to select the right framework in which to analyse the situation and decide which branches of physics

are involved. The level of sophistication needed to tackle most of the two hundred problems is that of the exceptional school student, the good undergraduate, or competent graduate student. The book will be valuable to undergraduates preparing for 'general physics' papers. It is hoped that even some physics professors will find the more difficult questions challenging. By contrast, mathematical demands are minimal, and do not go beyond elementary

calculus. This intriguing book of physics problems should prove instructive, challenging and fun. *Handbook on the Physics and Chemistry of Rare Earths* Springer Nature
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Prakshan Pvt
LtdFractional Calculus and its Applications in
PhysicsFrontiers Media
SAAdsorption and Aggregation of Surfactants in
SolutionCRC Press
Score Plus CBSE Question Bank and Sample Question Paper with Model Test Papers in

Physics (Subject Code 042) CBSE Term II Exam 2021-22 for Class XII
DEStech Publications, Inc
As the application of smart technologies for monitoring environmental activities becomes more widespread, there is a growing demand for solutions that can help analyze the risk factors and impacts on the environment by focusing on energy consumption, storage, and management. This book is designed to serve as a knowledge-sharing platform, focusing on the

emerging models, architectures, and algorithms being developed for smart computational technologies that can lead to efficient energy conservation and environmental sustainability.

Competition Science

Vision CRC Press

Text provides information about advanced OTFT (Organic thin film transistor) structures, their modeling and extraction of performance parameters, materials of individual layers, their

molecular structures, basics of pi-conjugated semiconducting materials and their properties, OTFT charge transport phenomena and fabrication techniques. It includes applications of OTFTs such as single and dual gate OTFT based inverter circuits along with bootstrap techniques, SRAM cell designs based on different material and circuit configurations, light emitting diodes (LEDs). Besides this, application of dual gate OTFT in the logic gate, shift register,

Flip-Flop, counter circuits will be included as well.

Basic Electrical Engineering (Be 104)

Nageen Prakshan Pvt Ltd
Technological innovations across the globe are bringing profound change to our society.

Governments around the world are experiencing and embracing this technology-led shift. New platforms, emerging technologies, customizable products, and changing citizen demand and outlook towards government services are reshaping the

whole journey. When it comes to the application of Information and Communication Technologies (ICT) in any sector, the Government of India has emerged as an early adopter of these technologies and has also focused on last-mile delivery of citizen-centric services. Citizen Empowerment through Digital Transformation in Government takes us through the four-decade long transformational journey of various key sectors in India where ICT has played a major role in

reimagining government services to citizens across the country. It touches upon the emergence of the National Informatics Centre as a premier technology institution of the Government of India and its collaborative efforts with the Central, State Governments, as well as the District level administration, to deliver best-in-class solutions. Inspiring and informative, the book is filled with real-life transformation stories that have helped to lead the people and the Government of India to

realize their vision of a digitally empowered nation.

Wavelet Methods for Solving Partial Differential Equations and Fractional Differential Equations

Frontiers Media SA

This book describes the microemulsion phenomenon in a systematic manner and not only provides an up-to-date introduction to this topic but also serves as the basis for further development in the area. The progress of microemulsion research has taken place in well-

defined stages. The introduction period was founded on Schulman's original discovery and was, as expected, focused on the interfacial free energy. Because Schulman obtained his microemulsions from a macroemulsion by the addition of a cosurfactant. The present stage is characterized by an extensively enhanced knowledge about structure and dynamics in these systems. This has led to the realization that the structure of the microemulsions is related

both to solutions with critical behaviour and long range order structures, the lyotropic liquid crystals. These two aspects have been elucidated independently by the French groups and by the Lund Spectroscopy group.

ISC Mathematics book 1 for Class- 11 Springer

Nature Handbook on the Physics and Chemistry of Rare Earths: Including Actinides, Volume 60 presents the latest release in this continuous series that covers all

aspects of rare earth science, including chemistry, life sciences, materials science and physics. Presents up-to-date overviews and new developments in the field of rare earths, covering both their physics and chemistry Contains individual chapters that are comprehensive and broad, along with critical reviews Provides contributions from highly experienced, invited experts
Nanotechnologies for Solubilization and Delivery in Foods, Cosmetics and

Pharmaceuticals Tata McGraw-Hill Education Score Plus CBSE Question Bank and Sample Question Paper with Model Test Papers in Physics (Subject Code 042) CBSE Term II Exam 2021-22 for Class XII As per the latest CBSE Reduced Syllabus, Design of the Questions Paper, and the latest CBSE Sample Question Paper for the Board Examinations to be held in 2021. The latest CBSE Sample Question Paper 2020-21 (Solved) along with the marking scheme,

released by the CBSE in October 2020 for the Board Examinations to be held in 2021. 10 Sample Papers (Solved) based on the latest Reduced Syllabus, Design of the Question Paper and the latest CBSE Sample Question Paper for the Board Examinations to be held in 2021. 10 Model Test Papers (Unsolved) based on the latest Reduced Syllabus, Design of the Question Paper and the latest CBSE Sample Question Paper for the Board Examinations to be held in 2021. Goyal

Brothers Prakashan *ISC Physics* CRC Press Demonstrating methods for overcoming stability issues in paints, wax dispersions, cosmetics, food products, and other industrial applications, this reference probes theoretical and practical issues surrounding microemulsion science and technology. Featuring the work of 51 international experts and containing almost 1000 instructive tables, equations, and illustrations, this book reviews the performance

of, and prospects for, experimental methods such as X-ray diffraction, transmission electron microscopy (TEM), light scattering, small angle neutron scattering, viscosimetry, and nuclear magnetic resonance (NMR) to characterize various aspects of the dispersed phase of microemulsions.

Intermediate Physics

Vol-I Goyal Brothers
Prakashan

This volume chronicles the proceedings of the 8th International Symposium on Surfactants in Solution

(SIS) held in Gainesville, FL, June 10-15, 1990. This series of symposia have been smoothly running since 1976, but the appellation "Surfactants in Solution" was used for the first time in 1982 in Lund. Since then our logo "SIS" has become very familiar to everyone involved in surfactants. In Lund the meeting was billed as the Fourth International Symposium on Surfactants in Solution. Earlier three events were held under different rubrics, but proceedings of all these symposia,

except the 7th SIS held in Ottawa in 1988, have been properly documented. As a matter of fact so far 10 volumes have appeared under the title "Surfactants in Solution". 1,2,3 The program for the 9th SIS was very comprehensive and many ramifications of surfactants were covered, and it was a veritable international event. It contained a total of 384 papers by 869 authors from practically every corner of our planet. Just the sheer number of papers is a testimonial to

the high tempo of research and tremendous interest in this wonderful class of materials. As in the past, there were plenary lectures (5),

invited talks (37), oral presentations (195) and poster presentations (147). The plenary lectures were given by Prof. J. Th. G. Overbeek,

Prof. C. A. Bunton, Prof. H. Ti Tien and Dr. J. Swalen. The lecture by Prof. Overbeek, the doyen of surface and colloid science, was a real treat.

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