Kumar Mittal Physics Solution

Fractional Calculus and its Applications in Physics
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Smart Technologies for Energy and Environmental Sustainability
ISC Physics
Physics : Textbook For Class Xi
Volume 11
Fundamentals and Applications
Organic Thin-Film Transistor Applications
Handbook of Fractional Calculus for Engineering and Science
Foam Films and Foams
Indian Journal of Theoretical Physics
Competition Science Vision
APC Understanding ISC Mathematics - Class 11 - Avichal Publishing Company
Encyclopedia of Surface and Colloid Science
Colloid and Interface Science
Citizen Empowerment through Digital Transformation in Government
Including Actinides
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Intermediate Physics Vol-I
Handbook on the Physics and Chemistry of Rare Earths
Indian Journal of Pure & Applied Physics
Wavelet Methods for Solving Partial Differential Equations and Fractional Differential Equations

TRISTIAN KAMREN

Fractional Calculus and its Applications in Physics Oxford University Press on Demand
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.
(Free Sample) 34 Years NTA NEET (UG) BIOLOGY Chapterwise & Topicwise Solved Papers with Value Added Notes (2021 - 1988) 16th Edition S. Chand Publishing
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 thee dots (●●●). Answer keys with hints and solutions are provided at the end of the chapter.
Nageen Prakshan Pvt Ltd
While business functions such as manufacturing, operations, and marketing often utilize various software applications, they tend to operate without the ability to interact with each other and exchange data. This provides a challenge to gain an enterprise-wide view of a business and to assist real-time decision making. Service-Driven Approaches to Architecture and Enterprise Integration addresses the issues of integrating assorted software applications and systems by using a service driven approach. Supporting the dynamics of business needs, this book highlights the tools, techniques, and governance aspects of design, and implements cost-effective enterprise integration solutions. It is a valuable source of information for software architects, SOA practitioners, and software engineers as well as researchers and students in pursuit of extensible and agile software design.
Smart Technologies for Energy and Environmental Sustainability Springer Science & Business Media
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.
ISC Physics CRC Press
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.
Physics : Textbook For Class Xi CRC Press
This book describes the microemulsion phenomenon in a systematic manner and not only provides an up-to-date introduction to this topic but aslo 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.

Volume 11 Goyal Brothers Prakashan

Offering the latest research and developments in the understanding of surfactant behavior in solutions, this reference investigates the role and dynamics of surfactants and their solution properties in the formulation of paints, printing inks, paper coatings, pharmaceuticals, personal care products, cosmetics, liquid detergents, and lubricants. Exploring the science behind techniques from oil recovery to drug delivery, the book covers surfactant stabilized particles; solid particles at liquid interfaces; nanocapsules; aggregation behavior of surfactants; micellar catalysis; vesicles and liposomes; the clouding phenomena; viscoelasticity of micellar solutions; and more.

Fundamentals and Applications Cambridge University 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.

Organic Thin-Film Transistor Applications Tata McGraw-Hill Education

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.

Handbook of Fractional Calculus for Engineering and Science Nageen Prakshan Pvt Ltd

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Foam Films and Foams CRC Press

Understanding ISC Mathematics, for class 11 - sections A, B & C, has been written by Mr. M.L. Aggarwal (Former Head of P.G. Department of Mathematics, D.A.V. College, Jalandhar) strictly according to the new syllabus prescribed by the Council for the Indian School Certificate Examinations, New Delhi in the year 2015 and onwards for students of class 11. A new feature - Typical Illustrative Examples and Typical Problems, has been added in some chapters for those students who want to attempt some more challenging problems. The entire matter in the book is given in a logical sequence so as to develop and strengthen the concepts of the students.

Indian Journal of Theoretical Physics CRC Press

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.

PHI Learning 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.

Competition Science Vision Springer Nature

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.

APC Understanding ISC Mathematics - Class 11 - Avichal Publishing Company Nageen Prakshan Pvt Ltd

ISC Physics -XINageen Prakshan Pvt LtdFractional Calculus and its Applications in PhysicsFrontiers Media SAAdsorption and Aggregation of Surfactants in SolutionCRC Press

Encyclopedia of Surface and Colloid Science 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.
Colloid and Interface Science Routledge
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.
Citizen Empowerment through Digital Transformation in Government Elsevier
Beginning with the basics of surfactant chemistry and micellization, this book presents a range of nanotechnology strategies for controlling colloidal and polymeric structures for the solubilization and targeted delivery of food nutrients and pharmaceuticals. The book demonstrates how vehicles for delivering bioactive ingredients through a variety of oral, transdermal, buccal and mucosal routes, can be synthesized by nanolevel manipulation of colloidal systems, proteins, peptides, liquid crystalline phases, organogels and dendrimers. Special attention is given to the modification of mesophases in micellar and liquid crystal systems, which are shown to be productive templates and chemical nanoreactors for uniquely structured nanocarriers. The volume connects micro- and nanolevel modification of emulsion-based and biopolymeric systems, as well as the formation of new nanoparticles, to key properties of absorption, bioavailability and therapeutic effectiveness for dozens of well-known and experimental drugs, food nutrients and antimicrobials. Throughout, a stress is placed on chemical strategies for enhancing the efficiency of drug and nutrient carriers. The information presented in this book is applicable to the design of micro- and nanolevel delivery systems with improved targeting, more efficient controlled release, and superior in vivo penetration into dermal and cellular structures.
Including Actinides Springer
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Introduction to Nuclear and Particle Physics IGI Global
This book describes in detail the scientific philosophy of the formation and stabilization-destabilization of foams. It presents all hierarchical steps of a foam, starting from the properties of adsorption layers formed by foaming agents, discussing the properties of foam films as the building blocks of a foam, and then describing details of real foams, including many fields of application. The information presented in the book is useful to people working on the formulation of foams or attempting to avoid or destruct foams in unwanted situations.