

Engineering Physics By Satya Prakash

Advanced Inorganic Chemistry - Volume II is a concise book on basic concepts of inorganic chemistry. Beginning with Coordination Chemistry, it presents a systematic treatment of all Transition and Inner-Transition chemical elements and their compounds according to the periodic table. Special topics such as Pollution and its adverse effects, chromatography, use of metal ions in biological systems, to name a few, are discussed to provide additional relevant information to the students. It primarily caters to the undergraduate courses (Pass and Honours) offered in Indian universities.

Pratiyogita Darpan

In spite of the fact that the story of Blind Students and the Elephant is merely a story, the same has been repeated several times in the history of the mankind right from the primordial times till to-date; in fact this is the way science has gradually grown on its journey of evolution. Scientists have to face similar situations on many occasions; they never get full information before devising any theory, instead they discover part-truths in several steps, each of which is discovered after long periods of time. This is analogous to concept developed by a blind man who forms an idea about the elephant by touches only one of its body-part. Scientists can therefore consider only one aspect of a problem at a time; they encounter with other aspects of the same problem at a much later point of time. At times such a situation might lead to misconceptions. Sometimes such misconceptions, conceived by some renowned personalities, are even considered to be very brilliant ideas and valuable achievements. As a result heritage of falsified knowledge had been transferred, several times in the past, to at least next 3-4 generations. This becomes possible because common man blindly follows renowned persons who are considered to be wise; normally no one even bothers to verify the truth; this is the greatest misfortune of the human kind. Misjudging or regarding such misconceptions as valuable discoveries might cause science to divagate from its path to find out absolute truth; a very long and valuable time might also be lost in elimination of such misconceptions.

Edited by professionals with years of experience, this book provides an introduction to the theory of evolutionary algorithms and single- and multi-objective optimization, and then goes on to discuss to explore applications of evolutionary algorithms for many uses with real-world applications. Covering both the theory and applications of evolutionary computation, the book offers exhaustive coverage of several topics on nontraditional evolutionary techniques, details working principles of new and popular evolutionary algorithms, and discusses case studies on both scientific and real-world applications of optimization

The book is all about concern to Indian Science: "The standard of science education is declining alarmingly. The best minds are not turning to science, and those who do, do not remain in science. The Indian contribution to basic sciences

in global context is reducing both in quality and quantity. What are the remedial measures?” It is strongly felt that there is an urgent need to take historic political decisions and to move fast to reverse the situation, the collective efforts of all akin to Bosonic character.

In This edition of the book, only minor changes have been made in some chapters. In the chapter on Nuclear Models (Ch. IX), the discussions on the individual particle model has been shortened to some extent and the relevant reference have been added where the readers can get the details.

Advanced Inorganic Chemistry - Volume I is a concise book on basic concepts of inorganic chemistry. It acquaints the students with the basic principles of chemistry and further dwells into the chemistry of main group elements and their compounds. It primarily caters to the undergraduate courses (Pass and Honours) offered in Indian universities.

Mathematics is an essential ingredient in the education of a student of mathematics or physics of a professional physicist, indeed in the education of any professional scientist or engineer. The purpose of Mathematical Physics is to provide a comprehensive study of the mathematics underlying theoretical physics at the level of graduate and postgraduate students and also have enough depth for others interested in higher level mathematics relevant to specialized fields. It is also intended to serve the research scientist or engineer who needs a quick refresher course in the subject. The Fourth Edition of the book has been thoroughly revised and updated keeping in mind the requirements of students and the latest UGC syllabus.

Carbon nanotubes are rolled up graphene sheets with a quasi-one-dimensional structure of nanometer-scale diameter. In these last twenty years, carbon nanotubes have attracted much attention from physicists, chemists, material scientists, and electronic device engineers, because of their excellent structural, electronic, optical, chemical and mechanical properties. More recently, demand for innovative industrial applications of carbon nanotubes is increasing. This book covers recent research topics regarding syntheses techniques of carbon nanotubes and nanotube-based composites, and their applications. The chapters in this book will be helpful to many students, engineers and researchers working in the field of carbon nanotubes.

The Most Authentic Source Of Information On Higher Education In India The Handbook Of Universities, Deemed Universities, Colleges, Private Universities And Prominent Educational & Research Institutions Provides Much Needed Information On Degree And Diploma Awarding Universities And Institutions Of National Importance That Impart General, Technical And Professional Education In India. Although Another Directory Of Similar Nature Is Available In The Market, The Distinct Feature Of The Present Handbook, That Makes It One Of Its Kind, Is That It Also Includes Entries And Details Of The Private Universities Functioning Across The Country. In This Handbook, The Universities Have Been Listed In An Alphabetical Order. This Facilitates Easy Location Of Their Names. In Addition To The Brief History Of These Universities, The Present Handbook Provides The Names Of Their Vice-Chancellor, Professors And Readers As Well As Their Faculties And Departments. It Also Acquaints The Readers With The Various Courses Of Studies Offered By Each University. It Is Hoped That The Handbook In Its Present Form, Will Prove Immensely Helpful To The Aspiring Students In Choosing The Best Educational Institution For Their Career Enhancement. In

Addition, It Will Also Prove Very Useful For The Publishers In Mailing Their Publicity Materials. Even The Suppliers Of Equipment And Services Required By These Educational Institutions Will Find It Highly Valuable.

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.

This book is primarily designed to serve as a textbook for undergraduate students of electrical, electronics, and computer engineering, but can also be used for primer courses across other disciplines of engineering and related sciences. The book covers all the basic aspects of electronics engineering, from electronic materials to devices, and then to basic electronic circuits. The book can be used for freshman (first year) and sophomore (second year) courses in undergraduate engineering. It can also be used as a supplement or primer for more advanced courses in electronic circuit design. The book uses a simple narrative style, thus simplifying both classroom use and self study. Numerical values of dimensions of the devices, as well as of data in figures and graphs have been provided to give a real world feel to the device parameters. It includes a large number of numerical problems and solved examples, to enable students to practice. A laboratory manual is included as a supplement with the textbook material for practicals related to the coursework. The contents of this book will be useful also for students and enthusiasts interested in learning about basic electronics without the benefit of formal coursework.

The thoroughly Revised & Update 2nd Edition of the book General Science & Technology for Civil Services PT & Mains, State PSC, CDS, NDA, SSC, & other UPSC Exams been designed with special focus on IAS Prelims & Main Exams. The book is prepared as per the trend of questions asked in previous years question papers of various UPSC/ State PSC/ SSC exams.

- In nutshell the book consists of complete theory of Physics, Chemistry, Biology and Technology with MCQ Exercise including past questions of various exams.
- The book also covers past questions of IAS Mains GS III and various State PSC exams.
- The book also covers Technology in the development of India and its future prospects in the field of research. The part deals with Energy, Nuclear Technology, Information Technology, Space research, Communication and Defence.
- The book is empowered with a variety of questions (Simple MCQs, Statement Based MCQs, Match the column MCQs, Assertion-Reason MCQs) and thus more than 3800 questions are included in the book. Solutions are also provided in the book.
- Past MCQs of last ten year questions of various competitive exams have also been included in the book.

Dyes and pigments have been utilized since ancient times. They play an important role in everyday life and their use is interwoven with human culture. Even though numerous dyes and pigments have been synthesized to date, and a lot of knowledge has been gained regarding their production and properties, scientific research is pushing the boundaries towards novel dyes and pigments for high-tech applications. At the same time, the accumulation of dyes and pigments in natural environments and pollution of water resources due to their massive use are important consequences to consider. New methods for the degradation and removal of dyes and pigments from affected areas are highly sought after. As such, this book examines new trends in smart and functional dyes and pigments and their uses as well as novel treatment approaches to dye and pigment waste.

The book covers the fundamental and theoretical aspects of repair and maintenance and

adjustment of automobile equipment and accessories of cars, trucks two-wheelers and three-wheelers. It covers the complete syllabus of diploma certificate in automobile engineering as well as industrial and vocational courses.

Mathematical Physics

The book presents a comprehensive study of important topics in Mechanics of pure and applied sciences. It provides knowledge of scalar and vector in optimum depth to make the students understand the concepts of Mechanics in simple, coherent and lucid manner and grasp its principles & theory. It caters to the requirements of students of B.Sc. Pass and Honours courses. Students of engineering disciplines and the ones aspiring for competitive exams such as AIME and others, will also find it useful for their preparations.

Cancer-causing viruses, also called oncoviruses, play a key role in the development of certain cancers. They contribute to genetic changes that disrupt the cell cycle machinery, interfering with functions such as cell growth. *Cancer-Causing Viruses and Their Inhibitors* presents a plethora of research from internationally reputed contributors who discuss different types of oncoviruses, their mechanisms of invasion and growth, and their life cycles. The book begins with an overview of the oncoviruses discovered to date and includes a brief description of their structures, genotypes, replication, and mechanisms of infection leading to cancers. It then explores several of these viruses in detail, including: Human T-cell leukemia virus type 1 (HTLV-1) Hepatitis C virus (HCV) Epstein–Barr virus (EBV) Human papilloma virus (HPV) Human herpes virus 8 (HHV-8)/Kaposi's sarcoma-associated herpes virus (KSHV) Human immunodeficiency virus (HIV/AIDS) Oncolytic viruses This book is an essential reference for those working in virology, oncology, and biotechnology. The discoveries presented will enable researchers and clinicians to optimize both historical and current approaches to anti-viral therapies.

Distributed Artificial Intelligence (DAI) came to existence as an approach for solving complex learning, planning, and decision-making problems. When we talk about decision making, there may be some meta-heuristic methods where the problem solving may resemble like operation research. But exactly, it is not related completely to management research. The text examines representing and using organizational knowledge in DAI systems, dynamics of computational ecosystems, and communication-free interactions among rational agents. This publication takes a look at conflict-resolution strategies for nonhierarchical distributed agents, constraint-directed negotiation of resource allocations, and plans for multiple agents. Topics included plan verification, generation, and execution, negotiation operators, representation, network management problem, and conflict-resolution paradigms. The manuscript elaborates on negotiating task decomposition and allocation using partial global planning and mechanisms for assessing nonlocal impact of local decisions in distributed planning. The book will attract researchers and practitioners who are working in management and computer science, and industry persons in need of a beginner to advanced understanding of the basic and advanced concepts.

Pratiyogita Darpan (monthly magazine) is India's largest read General Knowledge and Current Affairs Magazine. Pratiyogita Darpan (English monthly magazine) is known for quality content on General Knowledge and Current Affairs. Topics ranging from national and international news/ issues, personality development, interviews of examination

toppers, articles/ write-up on topics like career, economy, history, public administration, geography, polity, social, environment, scientific, legal etc, solved papers of various examinations, Essay and debate contest, Quiz and knowledge testing features are covered every month in this magazine.

This textbook familiarizes the students with the general laws of thermodynamics, kinetic theory & statistical physics, and their applications to physics. Conceptually strong, it is flourished with numerous figures and examples to facilitate understanding of concepts. Written primarily for B.Sc. Physics students, this textbook would also be a useful reference for students of engineering.

Arguing that India, not Sumer, was the cradle of civilization, looks at India's ancient history by examining the symbols and myths contained in the Rig-Veda and exploring the mathematical and astronomical data contained in the Vedic hymns.

The book in its present form is due to my interaction with the students for quite a long time. It had been my long-cherished desire to write a book covering most of the topics that form the syllabi of the Engineering and Science students at the degree level. Many students, although able to understand the various topics of the books, may not be able to put their knowledge to use. For this purpose a number of questions and problems are given at the end of each chapter.

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