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**Engineering Physics, 2nd Edition** *Vikas Publishing House* **Engineering Physics** has been written keeping in mind the first year engineering students of all branches of various Indian universities. The second edition provides more examples with solution. It also offers university question papers of recent years with model solutions. **Engineering Physics (with Practicals) (GTU), 8th Edition** *Vikas Publishing House* **Engineering Physics** has been specifically designed and written to meet the requirements of the engineering students of GTU. All the topics and sub-topics are neatly arranged for the students. A number of assignment problems, along with questions and answers, have also been provided. MCQs for the bridge course have been designed in such a way that the students can recollect every concept that they have read and apply easily during the examination. **KEY FEATURES** • Detailed discussion of every topic from elementary to comprehensive level with several worked-out examples • A section on practicals • Solved Question Papers- Dec 2013 and June 2014 • As per the syllabus for 2013-14 **Engineering Physics, 2nd Edition** *Vikas Publishing House* **Engineering Physics** has been written keeping in mind the first year engineering students of all branches of various Indian universities. The second edition provides more examples with solution. It also offers university question papers of recent years with model solutions. **Industrial Restructuring in East Asia Towards the 21st Century** *Institute of Southeast Asian Studies* Divided into three parts, this volume covers industrial restructuring in Southeast Asian economies, restructuring in Asia's newly industrialized economies, and industrial restructuring in the two large Asian economies. **A Textbook of Engineering Physics** *S. Chand Publishing* A Textbook of Engineering Physics is written with two distinct objectives: to provide a single source of information for engineering undergraduates of different specializations and provide them a solid base in physics. Successive editions of the book incorporated topics as required by students pursuing their studies in various universities. In this new edition the contents are fine-tuned, modernized and updated at various stages. **Fundamentals of Mathematics Engineering Physics** **Engineering Physics** is designed as a textbook for first year undergraduate engineering students. The book comprehensively covers all relevant and important topics in a simple and lucid manner. It explains the principles as well as the applications of a given topic using numerous solved examples and self-explanatory figures. **Technical Communication for Engineers** *Vikas Publishing House* **Technical Communication for Engineers** has been written for undergraduate students of all engineering disciplines. It provides a well-researched content meticulously developed to help them become strategic assets to their organizations and have a successful career. The book covers the entire spectrum of learning required by a technical professional to effectively communicate the technicalities of his subject to other technocrats or to a non-technical person at their proper levels. It is unique inasmuch as it provides some thoughtful pedagogical tools that help the students attain proficiency in all the modes of communication. **Key Features** □ Marginalia, which are spread throughout the book to clarify and highlight the key points. □ Tech Talk passages, which throw light on the latest advancements in communication technology and their innovative use □ Application-based Exercise, which encourages the readers to apply the concepts learnt to real-life situation □ Language-based Exercise (Grammar & Vocabulary) to help readers assess their language competency □ Ethical Dilemma, which poses a complex hypothetical situation of mental conflict on choosing between difficult moral imperatives □ Experiential Learning-based Exercise (Project Work) devised to help learner 'feel' or 'experience' the concepts and theories learnt and thereby gain hands-on experience **Indian National Bibliography Photovoltaic Systems Engineering** *CRC Press* The primary purpose of PV Systems Engineering is to provide a comprehensive set of PV knowledge and understanding tools for the design, installation, commissioning, inspection, and operation of PV systems. During recent years in the United States, more PV capacity was installed than any other electrical generation source. In addition to practical system information, this new edition includes explanation of the basic physical principles upon which the technology is based and a consideration of the environmental and economic impact of the technology. The material covers all phases of PV systems from basic sunlight parameters to system commissioning and simulation, as well as economic and environmental impact of PV. With homework problems included in each chapter and numerous design examples of real systems, the book provides the reader with consistent opportunities to apply the information to real-world scenarios. **Nanoscale Processing** *Elsevier* **Nanoscale Processing** outlines recent advances in processing techniques for a range of nanomaterial types. New developments in the processing of nanostructured materials are being applied in diverse fields. This book offers in-depth information and analysis of a range of processing techniques for nanostructures, and also covers nanocharacterization aspects thoroughly. Topics covered include zero

dimensional nanostructures, nanostructured biomaterials, carbon-based nanostructures, polymeric and liposomal nanostructures, and quantum dots. This book is an important resource for materials scientists and engineers looking to learn more about a variety of processing techniques for various nanomaterial classes, for use in both the industrial and biomedical sectors. Explains major nanoscale processing techniques, outlining in which situations each should be used Discusses a range of nanomaterial classes, including nanobiomaterials, polymeric nanomaterials, optical nanomaterials and magnetic nanomaterials Explores the challenges of using certain processing techniques for certain classes of nanomaterial

**Linear Algebra Step by Step** *Oxford University Press* "This book is intended for first- and second-year undergraduates arriving with average mathematics grades ... The strength of the text is in the large number of examples and the step-by-step explanation of each topic as it is introduced. It is compiled in a way that allows distance learning, with explicit solutions to all of the set problems freely available online <http://www.oup.co.uk/companion/singh>" -- From preface.

**Predictive Intelligence in Biomedical and Health Informatics** *Walter de Gruyter GmbH & Co KG* **Predictive Intelligence in Biomedical and Health Informatics** focuses on imaging, computer-aided diagnosis and therapy as well as intelligent biomedical image processing and analysis. It develops computational models, methods and tools for biomedical engineering related to computer-aided diagnostics (CAD), computer-aided surgery (CAS), computational anatomy and bioinformatics. Large volumes of complex data are often a key feature of biomedical and engineering problems and computational intelligence helps to address such problems. Practical and validated solutions to hard biomedical and engineering problems can be developed by the applications of neural networks, support vector machines, reservoir computing, evolutionary optimization, biosignal processing, pattern recognition methods and other techniques to address complex problems of the real world.

**Physics for Engineers** *New Age International* **High Voltage and Electrical Insulation Engineering** *John Wiley & Sons* **High Voltage and Electrical Insulation Engineering** A comprehensive graduate-level textbook on high voltage insulation engineering, updated to reflect emerging trends and techniques in the field **High Voltage and Electrical Insulation Engineering** presents systematic coverage of the behavior of dielectric materials. This classic textbook opens with clear explanations of fundamental terminology, electric-field classification, and field estimation techniques. Subsequent chapters describe the field dependent performance of gaseous, vacuum, liquid, and solid dielectrics under different classified field conditions, and illustrate the monitoring of electrical insulation conditions by both single and continuous online methods. Throughout the text, numerous tables, figures, diagrams, and images are provided to strengthen understanding of all material. Fully revised to incorporate the most current technological application techniques, the second edition offers an entirely new section on condition monitoring of electrical insulation. Updated chapters discuss recent developments in gas-filled power apparatus, present-day trends in the use replacement of liquid insulating materials, the latest applications of new solid dielectrics in high voltage engineering, vacuum technology and liquid insulating materials, and more. This edition features a brand-new case study exploring the estimation of clearance requirements for 25 kV electric traction. Readers will also find the new edition: Provides new coverage of advances in the field, such as the application of polymer insulators and the use of SF6 gas and its mixtures in gas-insulated systems/substations (GIS) Uses a novel approach that explores the field dependent behavior of dielectrics Explains the "weakly nonuniform field," a unique concept introduced both conceptually and analytically in Germany A separate chapter provides the new approach to the mechanism of lightning phenomenon, which also includes the phenomenon of "Ball Lightning" The dielectric properties of vacuum and the development in the application of vacuum technology in power circuit breakers is covered in an exclusive chapter In-depth coverage of the performance of the sulphur-hexafluoride gas and its mixtures applicable to the design of Gas Insulated Systems including dry power transformers **High Voltage and Electrical Insulation Engineering, Second Edition**, remains the perfect textbook for graduate students, teachers, academic researchers, and utility and power industry engineers and scientists involved in the field.

**Numerical Analysis or Numerical Method in Symmetry** *MDPI* This Special Issue focuses mainly on techniques and the relative formalism typical of numerical methods and therefore of numerical analysis, more generally. These fields of study of mathematics represent an important field of investigation both in the field of applied mathematics and even more exquisitely in the pure research of the theory of approximation and the study of polynomial relations as well as in the analysis of the solutions of the differential equations both ordinary and partial derivatives. Therefore, a substantial part of research on the topic of numerical analysis cannot exclude the fundamental role played by approximation theory and some of the tools used to develop this research. In this Special Issue, we want to draw attention to the mathematical methods used in numerical analysis, such as special functions, orthogonal polynomials, and their theoretical tools, such as Lie algebra, to study the concepts and properties of some special and advanced methods, which are useful in the description of solutions of linear and nonlinear differential equations. A further field of investigation is dedicated to the theory and related properties of fractional calculus with its adequate application to numerical methods.

**Power Electronics and Renewable Energy Systems Proceedings of ICPERES 2014** *Springer* The book is a collection of high-quality peer-reviewed research papers presented in the Proceedings of International Conference on Power Electronics and Renewable Energy Systems (ICPERES 2014) held at Rajalakshmi Engineering College, Chennai, India. These research papers provide the latest developments in the broad area of Power Electronics and Renewable Energy. The book discusses wide variety of industrial, engineering and scientific applications of the emerging techniques. It presents invited papers from the inventors/originators of new applications and advanced technologies.

**Advances in Smart Grid and Renewable Energy Select Proceedings of ETAEERE 2020** *Springer Nature* This book comprises select proceedings of the international conference ETAEERE 2020, and primarily focuses on renewable energy resources and smart grid technologies. The book provides valuable information on the technology and design of power grid integration on microgrids of green energy sources. Some of the topics covered

include solar PV array, hybrid microgrid, daylight harvesting, green computing, photovoltaic applications, nanogrid applications, AC/DC/AC converter for wind energy systems, solar photovoltaic panels, PEM fuel cell system, and biogas run dual-fueled diesel engine. The contents of this book will be useful for researchers and practitioners working in the areas of smart grids and renewable energy generation, distribution, and management. *New Challenges in Seed Biology Basic and Translational Research Driving Seed Technology BoD - Books on Demand* **New Challenges in Seed Biology - Basic and Translational Research Driving Seed Technology** combines different aspects of basic and translational research in seed biology. A collection of eight chapters written by seed biology experts from the field of seed physiology, ecology, molecular biology, biochemistry, and seed technology was gathered. We hope that this book will attract the attention of researchers and technologists from academia and industry, providing points for interactive and fruitful discussion on this fascinating topic. *Microgrid Architectures, Control and Protection Methods Springer* This book presents intuitive explanations of the principles of microgrids, including their structure and operation and their applications. It also discusses the latest research on microgrid control and protection technologies and the essentials of microgrids as well as enhanced communication systems. The book provides solutions to microgrid operation and planning issues using various methodologies including planning and modelling; AC and DC hybrid microgrids; energy storage systems in microgrids; and optimal microgrid operational planning. Written by specialists, it is filled in innovative solutions and research related to microgrid operation, making it a valuable resource for those interested in developing updated approaches in electric power analysis, design and operational strategies. Thanks to its in-depth explanations and clear, three-part structure, it is useful for electrical engineering students, researchers and technicians. *Engineering Mathematics - III: Pearson Education India* **Engineering Mathematics-III** has been mapped to the syllabus of the third-semester mathematics paper taught to the students of electrical engineering, electrical and electronics engineering and electronics and communication engineering in Rajasthan Technical University, Kota. The book, a balanced mix of theory and solved problems, focuses on problem-solving techniques and engineering applications to ensure that students learn the mathematical skills needed for engineers. The last three years' solved question papers have been included for the benefit of the students. *Innovations in Computer Science and Engineering Proceedings of the Fourth ICICSE 2016 Springer* The book is a collection of high-quality peer-reviewed research papers presented at the Fourth International Conference on Innovations in Computer Science and Engineering (ICICSE 2016) held at Guru Nanak Institutions, Hyderabad, India during 22 - 23 July 2016. The book discusses a wide variety of industrial, engineering and scientific applications of the emerging techniques. Researchers from academic and industry present their original work and exchange ideas, information, techniques and applications in the field of data science and analytics, artificial intelligence and expert systems, mobility, cloud computing, network security, and emerging technologies. *Transistor Circuit Techniques Discrete and Integrated CRC Press* Thoroughly revised and updated, this highly successful textbook guides students through the analysis and design of transistor circuits. It covers a wide range of circuitry, both linear and switching. *Transistor Circuit Techniques: Discrete and Integrated* provides students with an overview of fundamental qualitative circuit operation, followed by an examination of analysis and design procedure. It incorporates worked problems and design examples to illustrate the concepts. This third edition includes two additional chapters on power amplifiers and power supplies, which further develop many of the circuit design techniques introduced in earlier chapters. Part of the Tutorial Guides in Electronic Engineering series, this book is intended for first and second year undergraduate courses. A complete text on its own, it offers the added advantage of being cross-referenced to other titles in the series. It is an ideal textbook for both students and instructors. *Engineering Mathematics-II, 1/e Engineering Mathematics is an interdisciplinary subject offered to the undergraduate engineering students. Considering the vast coverage of the subject, this book is designed for the second semester students of B.E/ B. Tech. The book offers a large number of exercises and a variety of solved examples with reference to engineering applications wherever appropriate. Social Change Among Balijas Majority Community of Andhra Pradesh M.D. Publications Pvt. Ltd.* The book with the origin and genesis of the caste, Balija. It is a socially and economically backward community. Their main occupation is petty business. It is a socially and economically exploited group. The book explains how these are called with different nomenclatures in different parts of India and the role of the noble people of the community in social development. It is a descriptive study dealing with the Balijas social life and political participation in nation development. The book suggests remedies for literacy economic development and is of immense use to the students and scholars who are concerned with the community studies. *Carbon Nanomaterials-Based Sensors Emerging Research Trends in Devices and Applications Elsevier* **Carbon Nanomaterials-Based Sensors: Emerging Research Trends in Devices and Applications** covers the most recent research and design trends for carbon nanomaterials-based sensors for a variety of applications, including clinical and environmental uses, and more. Carbon nanomaterials-based sensors can be used with high sensitivity, stability and accuracy compared to other techniques. Written by experts in their given fields from around the world, this book helps researchers solve the particular challenges they face when developing new types of sensors. It instructs how to make sensitive, selective, robust, fast-response and stable carbon nanomaterial-based sensors, as well as how to utilize them in real life. Covers the environmental monitoring and analytical implications of electro-analytical methods, one of the most dynamically developing branches of carbon nanomaterials Includes a complete discussion of functionalized nanostructure materials reformulated with noble materials and advanced characteristics for improved applications when compared to standard materials Covers sustainability and challenges in the commercialization of carbon nanomaterials-based sensors *A Textbook Of Applied Physics I. K. International Pvt Ltd* This book is intended to serve as a textbook of Applied Physics / Physics paper of the undergraduate students of B.E., B.Tech and B.Sc. Exhaustive treatment of topics in optics, mechanics, relativistic mechanics, laser, optical fibres and holography have been included. Physics is best learnt by

conceptualization of the involved principles and to help the students conceptualize the involved principles, the text has been presented in an easy to understand manner. Large number of solved numericals have been included in the book to give a quantitative idea of the subject. Exercises and unsolved numericals have been given at the end of each chapter for practice. The book will also be useful for the students taking various competitive examinations. Dictionary of International Biography A biographical record of contemporary achievement together with a key to the location of the original biographical notes. Physics (Group 1) *S. Chand Publishing* S. Chand's Physics, designed to serve as a textbook for students pursuing their engineering degree course, B.E. in Gujarat Technical University. The book is written with the singular objective of providing the students of GTU with a distinct source material as per the syllabus. The philosophy of presentation of the material in the book is based upon decades of classroom interaction of the authors. In each chapter, the fundamental concepts pertinent to the topic are highlighted and the in-between continuity is emphasized. Throughout the book attention is given to the proper presentation of concepts and practical applications are cited to highlight the engineering aspects. A number of problems are solved. New problems are included in order to expedite the learning process of students of all hues and to improve their academic performance. The fundamental concepts are emphasized in each chapter and the details are developed in an easy-to-follow style. Each chapter is divided into smaller parts and sub-headings are provided to make the reading a pleasant journey from one interesting topic to another important topic. Emerging Research in Electronics, Computer Science and Technology Proceedings of International Conference, ICERECT 2012 *Springer Science & Business Media* PES College of Engineering is organizing an International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT-12) in Mandya and merging the event with Golden Jubilee of the Institute. The Proceedings of the Conference presents high quality, peer reviewed articles from the field of Electronics, Computer Science and Technology. The book is a compilation of research papers from the cutting-edge technologies and it is targeted towards the scientific community actively involved in research activities. Modern Engineering Physics *S. Chand Publishing* 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. General Engineering Handbook Higher Mathematics for Physics and Engineering *Springer Science & Business Media* Due to the rapid expansion of the frontiers of physics and engineering, the demand for higher-level mathematics is increasing yearly. This book is designed to provide accessible knowledge of higher-level mathematics demanded in contemporary physics and engineering. Rigorous mathematical structures of important subjects in these fields are fully covered, which will be helpful for readers to become acquainted with certain abstract mathematical concepts. The selected topics are: - Real analysis, Complex analysis, Functional analysis, Lebesgue integration theory, Fourier analysis, Laplace analysis, Wavelet analysis, Differential equations, and Tensor analysis. This book is essentially self-contained, and assumes only standard undergraduate preparation such as elementary calculus and linear algebra. It is thus well suited for graduate students in physics and engineering who are interested in theoretical backgrounds of their own fields. Further, it will also be useful for mathematics students who want to understand how certain abstract concepts in mathematics are applied in a practical situation. The readers will not only acquire basic knowledge toward higher-level mathematics, but also imbibe mathematical skills necessary for contemporary studies of their own fields. Handbook of AI-based Metaheuristics *CRC Press* At the heart of the optimization domain are mathematical modeling of the problem and the solution methodologies. The problems are becoming larger and with growing complexity. Such problems are becoming cumbersome when handled by traditional optimization methods. This has motivated researchers to resort to artificial intelligence (AI)-based, nature-inspired solution methodologies or algorithms. The Handbook of AI-based Metaheuristics provides a wide-ranging reference to the theoretical and mathematical formulations of metaheuristics, including bio-inspired, swarm-based, socio-cultural, and physics-based methods or algorithms; their testing and validation, along with detailed illustrative solutions and applications; and newly devised metaheuristic algorithms. This will be a valuable reference for researchers in industry and academia, as well as for all Master's and PhD students working in the metaheuristics and applications domains. Engineering Workshop Practice A Textbook of Engineering Physics (Kerala) *S. Chand Publishing* Interference | Diffraction | Polarization | Lasers | Fibreoptics | Simple Harmonic Motion | Wave Motion | Ultrasonics And Acoustics | X-Rays | Electronic configuration | General Properties Of The Nucleus | Nuclear Models | Natural Radioactivity | Nuclear reactions And Artificial Radioactivity | Nuclear Fission And fusion | Crystal Structure | Band Theory Of Solids | Metals, Insulators And Semiconductors | Magnetic And dielectric Properties Of Materials | Maxwell's Equations | Matter Waves And Uncertainty Principle | Quantum theory | Super-Conductivity | Statistics And Distribution laws | Scalar And Vector Fields Recent Trends in Image Processing and Pattern Recognition Third International Conference, RTIP2R 2020, Aurangabad, India, January 3-4, 2020, Revised Selected Papers, Part II *Springer Nature* 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. Engineering Mathematics *Pearson Education India* Engineering Mathematics is designed to suit the curriculum requirements of undergraduate students of engineering. In their trademark student friendly style, the authors have endeavored to provide an in depth understanding of the concepts. Techno-

**Societal 2018 Proceedings of the 2nd International Conference on Advanced Technologies for Societal Applications - Volume 2** *Springer Nature* This book, divided in two volumes, originates from Techno-Societal 2018: the 2nd International Conference on Advanced Technologies for Societal Applications, Maharashtra, India, that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations. The focus is on technologies that help develop and improve society, in particular on issues such as the betterment of differently abled people, environment impact, livelihood, rural employment, agriculture, healthcare, energy, transport, sanitation, water, education. This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science, Engineering and Technology for reporting innovations at different levels.

**Techno-Societal 2018 Proceedings of the 2nd International Conference on Advanced Technologies for Societal Applications - Volume 1** *Springer Nature* This book, divided in two volumes, originates from Techno-Societal 2018: the 2nd International Conference on Advanced Technologies for Societal Applications, Maharashtra, India, that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations. The focus is on technologies that help develop and improve society, in particular on issues such as the betterment of differently abled people, environment impact, livelihood, rural employment, agriculture, healthcare, energy, transport, sanitation, water, education. This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science, Engineering and Technology for reporting innovations at different levels.