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Chemistry A TEXTBOOK OF ENGINEERING CHEMISTRY Medicinal
Chemistry Organic Chemistry Physical Chemistry Industrial
Chemistry Green Chemistry Heterocyclic Chemistry
Organometallic Chemistry Handbook of Polymers in Medicine
Engineering Chemistry Perspectives And Challenges In
Statistical Physics And Complex Systems For The Next Decade
Lignocellulosic Biomass Production and Industrial
Applications Vacuum Science and Technology Advanced
Engineering Mathematics, 22e Engineering Mathematics-II
Higher Engineering Mathematics Applied Chemistry Theory And
Practice Basic Engineering Mathematics Survismeter English
For Engineers & Tech. (New Edition) Raman Spectroscopy of Two-
Dimensional Materials Engineering Chemistry Textbook of
Nanoscience and Nanotechnology Integrating Green Chemistry
and Sustainable Engineering A New Concise Inorganic
Chemistry A Guide to Introductory Nematology Fundamentals of
Digital Communication Spatial Databases Unruly Waters 8th
European Medical and Biological Engineering Conference
Chemistry in Engineering and Technology Engineering
Chemistry (Ptu) Text Book of Environmental Studies Basic
Electrical and Electronics Engineering: BASIC ELECTRONICS
Advanced Applied Mathematics Applied Chemistry: A Textbook
for Engineers and Technologists

English For Engineers & Tech. (New Edition) Oct 06 2021 The
new combined edition looks at the relevance of content and
clear communication. Current information from the fields
concerned has been incorporated and a learner-centred
approach is used. Themes of world relevance have been used
to divide the chapters into sections. Subjects such as
natural and human resources and their exploitation, energy
and mass communication, developments in the fields of
computers and technology such as BPOs, artificial

intelligence, rainwater harvesting, solar and wind energy, nuclear power, e-learning, Internet culture, etc. have been used in this new edition. Wherever necessary, fresh exercises have been added; so also elements such as email, phrasal verbs, modals etc. have been worked into the units. Altogether the book is fresh and new because of these changes and has a new large format with generously laid out photographs and pictures.

Engineering Chemistry (Ptu) Sep 24 2020

Engineering Chemistry Aug 04 2021 Written in lucid language, the book offers a detailed treatment of fundamental concepts of chemistry and its engineering applications.

Perspectives And Challenges In Statistical Physics And Complex Systems For The Next Decade Jul 15 2022 Statistical Physics (SP) has followed an unusual evolutionary path in science. Originally aiming to provide a fundamental basis for another important branch of Physics, namely Thermodynamics, SP gradually became an independent field of research in its own right. But despite more than a century of steady progress, there are still plenty of challenges and open questions in the SP realm. In fact, the area is still rapidly evolving, in contrast to other branches of science, which already have well defined scopes and borderlines of applicability. This difference is due to the steadily expanding number of applications, as well as ongoing improvements and revisions of concepts and methods in SP. Such particular aspects of SP lend further significance and timeliness to this book about perspectives and trends within the field. Here, the aim is to present the state-of-the-art vision of expert researchers who study SP and Complex Systems. Although a comprehensive treatment is well beyond what can be treated in a single volume, the book provides a snapshot of the field today, as well as a glimpse of where the field may be heading during the next decade. The book is aimed at graduate and advanced undergraduate physics students, as well as researchers who work with SP, Complex Systems, Computational Physics, Biological Physics and related topics. It addresses questions such as: What

insights can be gained from recent advances in the study of traditional problems in SP? How can SP help us understand problems that arise in the biological sciences and in the study of complex systems? How can new problems be formulated using the 'language' of SP? In this way, it attempts to document partial progress in answering these and related questions. The book also commemorates the occasion of the 70th anniversary in 2011 of two important physicists and friends who dedicated their lives to the understanding of nature in general and to the development of Statistical Physics and the science of Complexity in particular: Liacir Lucena and H Eugene Stanley.

Vacuum Science and Technology May 13 2022 This book presents a modern and balanced approach while discussing the conceptual and practical aspects of vacuum science and technology. The chapters in the book are planned in systematic fashion from basic concepts through vacuum production and measurement, vacuum components, trouble shooting and then providing applications. It would be useful to students, both at the under-graduate and graduate levels in physics and also in various branches of engineering. In addition, it would be of value to practicing scientists and engineers who have to deal with vacuum science and technology.

Green Chemistry Dec 20 2022 Green Chemistry concerned with chemical research and engineering that encourages the design of products and processes that minimize the use and generation of hazardous substances. It is effective in controlling the impact of chemicals on human health and the environment. Chemists and chemical engineers applying green chemistry look at the entire life cycle of a product or process, from the origins of the materials used for manufacturing to the ultimate fate of the materials after they have finished their useful life. This book is written especially for researchers at various levels e.g. in industry, R&D Laboratories, University and College laboratories etc. It describes a large number of organic reactions under green conditions. The conditions used are aqueous phase, using PTC catalyst, sonication and microwave

technologies.

Engineering Chemistry Jun 26 2023

8th European Medical and Biological Engineering Conference

Nov 26 2020 This book aims at informing on new trends, challenges and solutions, in the multidisciplinary field of biomedical engineering. It covers traditional biomedical engineering topics, as well as innovative applications such as artificial intelligence in health care, tissue engineering, neurotechnology and wearable devices. Further topics include mobile health and electroporation-based technologies, as well as new treatments in medicine.

Gathering the proceedings of the 8th European Medical and Biological Engineering Conference (EMBEC 2020), held on November 29 - December 3, 2020, in Portorož, Slovenia, this book bridges fundamental and clinically-oriented research, emphasizing the role of education, translational research and commercialization of new ideas in biomedical engineering. It aims at inspiring and fostering communication and collaboration between engineers, physicists, biologists, physicians and other professionals dealing with cutting-edge themes in and advanced technologies serving the broad field of biomedical engineering.

Lignocellulosic Biomass Production and Industrial Applications Jun 14 2022 Lignocellulosic Biomass Production and Industrial Applications describes the utilization of lignocellulosic biomass for various applications. Although there have been numerous reports on lignocellulosic biomass for biofuel application, there have been very few other applications reported for lignocellulosic biomass-based chemicals and polymers. Therefore, this book covers all of the possible lignocellulosic biomass applications. Besides describing the different types of biofuel production, such as bioethanol, biobutanol, biodiesel and biogas from lignocellulosic biomass, it also presents various other lignocellulosic biomass biorefinery applications for the production of chemicals, polymers, paper and bioplastics. In addition, there are chapters on valorization of lignocellulosic materials, alkali treatment to improve the

physical, mechanical and chemical properties of lignocellulosic natural fibers, and a discussion of the major benefits, limitations and future prospects of the use of lignocellulosic biomass.

Survismeter Nov 07 2021 This book presents the survismeter, a new invention that widely covers and determines PCPs of various molecules and experimentally measures the thermodynamic and kinetic stabilities of nanoemulsions. It unveils how a survismeter can measure surface tension, interfacial tension, wettability, viscosity, friccohesity, tentropy, rheology, density, activation energy, and particle size. It discusses novel models of molecular science that can be applied in the formulation and study of activities of functional molecules through their PCPs. It also introduces the new concept of friccohesity, which has emerged as an excellent substitute of viscosity and surface tension in experimental measurements as it does not require density measurements. It shows that the science and technology of the survismeter and friccohesity have become an inevitable part of scientific research, substantially integrating the domain of perfect industrial and academic formulations.

Fundamentals of Digital Communication Feb 27 2021 This is a concise presentation of the concepts underlying the design of digital communication systems, without the detail that can overwhelm students. Many examples, from the basic to the cutting-edge, show how the theory is used in the design of modern systems and the relevance of this theory will motivate students. The theory is supported by practical algorithms so that the student can perform computations and simulations. Leading edge topics in coding and wireless communication make this an ideal text for students taking just one course on the subject. Fundamentals of Digital Communications has coverage of turbo and LDPC codes in sufficient detail and clarity to enable hands-on implementation and performance evaluation, as well as 'just enough' information theory to enable computation of performance benchmarks to compare them against. Other unique features include space-time communication and geometric insights into noncoherent communication and equalization.

Raman Spectroscopy of Two-Dimensional Materials Sep 05 2021
This book shows the electronic, optical and lattice-vibration properties of the two-dimensional materials which are revealed by the Raman spectroscopy. It consists of eleven chapters covering various Raman spectroscopy techniques (ultralow-frequency, resonant Raman spectroscopy, Raman imaging), different kinds of two-dimensional materials (in-plane isotropy and anisotropy materials, van der Waals heterostructures) and their physical properties (double-resonant theory, surface and interface effect). The topics include the theory origin, experimental phenomenon and advanced techniques in this area. This book is interesting and useful to a wide readership in various fields of condensed matter physics, materials science and engineering.

Applied Chemistry Theory And Practice Jan 09 2022

Medicinal Chemistry Apr 24 2023 Medicinal chemistry is the chemistry discipline concerned with the design, development and synthesis of pharmaceutical drugs. The discipline combines expertise from chemistry and pharmacology to identify, develop and synthesize chemical agents that have a therapeutic use and to evaluate the properties of existing drugs. Medicinal Chemistry is a comprehensive and well illustrated presentation of the major areas of pharmaceutical drug research. It will be extremely useful as a textbook for pharmacy students and as an overview for research scientists entering the pharmaceutical industry. The book integrates the chemical and pharmacological aspects of drugs, and links the sciences of organic chemistry, biochemistry, and biology with the clinical areas of required for a thorough understanding of modern medicinal drugs. The treatment of pain and disease is one of the most important goals of humankind. Since ancient times people have been using potions, natural products and even the dust of mummies for the treatment of health problems. The healing effects of remedies were often ascribed to spirits and mythical entities, but some of the herbal preparations did possess curative properties. In the 1800's scientists began to investigate potions to determine what chemicals were present that could cause the observed healing. Thus, the

early days of medicinal chemistry began with the study of naturally occurring materials that were effective in treating human disorders. The studies were tedious and required much sample purification and structure determination at a time when instrumental methods of analysis were unavailable. Also, screening methods for chemical efficacy against disease had to be developed so that humans were not used as trials. The book builds on the history of drug development, but does not assume much background knowledge. The focus is on building upon the understandings of the molecular function of drugs, and from there, taking a broad overview of the topical issues and most frequently used techniques.

Integrating Green Chemistry and Sustainable Engineering Jun 02 2021 Over the past decade, the population explosion, rise in global warming, depletion of fossil fuel resources and environmental pollution has been the major driving force for promoting and implementing the principles of green chemistry and sustainable engineering in all sectors ranging from chemical to environmental sciences. It is noteworthy to mention that production of biofuels, exploitation of renewable energy sources and use of ecologically safer products in applied sectors are becoming increasingly important for the development of alternative sustainable technologies. *Integrating Green Chemistry and Sustainable Engineering* focusses on latest sustainable technologies and developments and describes how sustainable chemistry and engineering practices are being applied and integrated in various industrial sectors. The book addresses emerging topics including biofuel production, CO₂ conversation to green fuels, advanced green polymers in coating applications, biological macromolecules in medical sector, biofertilizers for agricultural sector, bioadsorption and much more.

Textbook of Nanoscience and Nanotechnology Jul 03 2021 This book is meant to serve as a textbook for beginners in the field of nanoscience and nanotechnology. It can also be used as additional reading in this multifaceted area. It covers the entire spectrum of nanoscience and technology:

introduction, terminology, historical perspectives of this domain of science, unique and widely differing properties, advances in the various synthesis, consolidation and characterization techniques, applications of nanoscience and technology and emerging materials and technologies.

Organometallic Chemistry Oct 18 2022 Organometallic Chemistry is the study of chemical compounds containing bonds between carbon and metal. The term "e;Metal"e; is defined deliberately broadly in this context and may include elements, such as silicon or boron, which are not metallic but are considered to be metalloids. Almost all branches of chemistry and material science now interface with organometallic chemistry. Organometallics find practical uses in stoichiometric and catalytic processes, especially processes involving carbon monoxide and alkene-derived polymers. Organometallic (OM) chemistry is the study of compounds containing, and reactions involving, metal-carbon bonds. The metal-carbon bond may be transient or temporary, but if one exists during a reaction or in a compound of interest, we're squarely in the domain of organometallic chemistry. Despite the denotational importance of the M-C bond, bonds between metals and the other common elements of organic chemistry also appear in OM chemistry: metal-nitrogen, metal-oxygen, metal-halogen, and even metal-hydrogen bonds all play a role. Metals cover a vast swath of the periodic table and include the alkali metals (group 1), alkali earth metals (group 2), transition metals (groups 3-12), the main group metals (groups 13-15, "e;under the stairs"e;), and the lanthanides and actinides. The principal idea of this book is to offer a comprehensive coverage of unconventional and thought-provoking topics in organometallic chemistry. It also supplies practical information about reaction mechanisms, along with the descriptions of contemporary applications to organic synthesis, organized by mechanism and kinetic. It will serve as a valuable reference tool for students and professional of organic and post organic chemistry, who need to become better acquainted with the subject.

Unruly Waters Dec 28 2020 From a MacArthur "Genius," a bold

new perspective on the history of Asia, highlighting the long quest to tame its waters Asia's history has been shaped by her waters. In Unruly Waters, historian Sunil Amrith reimagines Asia's history through the stories of its rains, rivers, coasts, and seas--and of the weather-watchers and engineers, mapmakers and farmers who have sought to control them. Looking out from India, he shows how dreams and fears of water shaped visions of political independence and economic development, provoked efforts to reshape nature through dams and pumps, and unleashed powerful tensions within and between nations. Today, Asian nations are racing to construct hundreds of dams in the Himalayas, with dire environmental impacts; hundreds of millions crowd into coastal cities threatened by cyclones and storm surges. In an age of climate change, Unruly Waters is essential reading for anyone seeking to understand Asia's past and its future.

Industrial Chemistry Jan 21 2023 Industrial Chemistry is a branch of chemistry in modern science. In industrial chemistry in modern science, we study about compounds or elements, their properties, and applications; which are used in industries. Since the time of Industrial Revolution, human intellect throughout the civilized world has been driving this Chemical Revolution. The book Industrial Chemistry is an excellent source of technological and economic information on the most important precursors and intermediates used in the chemical industry. It should be in the hand of every higher-graduate student, especially if chemical technology is not part of the study, like in many college universities. This book on industrial chemistry provides an overview of the new trends and hot topics by describing the challenge of designing industrial chemical processes that are up-to-date, sustainable, and economically feasible. The text in this book is throughout supplemented with diagrams and tables. The treatment of all topics is in a cogent, lucid style aimed at enabling the reader to grasp the information quickly and easily. This useful book is specifically intended for practicing chemical engineers, industrial chemists and research students.

Higher Engineering Mathematics Feb 10 2022 Now in its

eighth edition, Higher Engineering Mathematics has helped thousands of students succeed in their exams. Theory is kept to a minimum, with the emphasis firmly placed on problem-solving skills, making this a thoroughly practical introduction to the advanced engineering mathematics that students need to master. The extensive and thorough topic coverage makes this an ideal text for upper-level vocational courses and for undergraduate degree courses. It is also supported by a fully updated companion website with resources for both students and lecturers. It has full solutions to all 2,000 further questions contained in the 277 practice exercises.

A TEXTBOOK OF ENGINEERING CHEMISTRY May 25 2023 Any good text book, particularly that in the fast changing fields such as engineering & technology, is not only expected to cater to the current curricular requirements of various institutions but also should provide a glimpse towards the latest developments in the concerned subject and the relevant disciplines. It should guide the periodic review and updating of the curriculum.

Spatial Databases Jan 29 2021 Spatial database research has continued to advance greatly since three decades ago, addressing the growing data management and analysis needs of spatial applications. This research has produced a taxonomy of models for space, conceptual models, spatial query languages and query processing, spatial file organization and indexes, and spatial data mining. However, emerging needs for spatial database systems include the handling of 3D spatial data, temporal dimension with spatial data, and spatial data visualization. In addition, the rise of new systems such as sensor networks and multi-core processors is likely to have an impact in spatial databases. The goal of this paper is to provide a broad overview of the recent advancements in spatial databases and research needs in each area.

Applied Chemistry: A Textbook for Engineers and Technologists Apr 19 2020 This book is the result of teaching a one semester course in Applied Chemistry (Chemistry 224) to second year engineering students for over

15 years. The contents of the course evolved as the interests and needs of both the students and Engineering Faculty changed. All the students had at least one semester of Introductory Chemistry and it has been assumed in this text that the students have been exposed to Thermodynamics, Chemical Kinetics, Solution Equilibrium, and Organic Chemistry. These topics must be discussed either before starting the Applied subjects or developed as required if the students are not familiar with these prerequisites. Engineering students often ask "Why is another Chemistry course required for Non-Chemical Engineers?" There are many answers to this question but foremost is that the Professional Engineer must know when to consult a Chemist and be able to communicate with him. When this is not done the consequences can be a disaster due to faulty design, poor choice of materials or inadequate safety factors. Examples of blunders abound and only a few will be described in an attempt to convince the student to take the subject matter seriously.

Heterocyclic Chemistry Nov 19 2022 A heterocyclic compound or ring structure is a cyclic compound that has atoms of at least two different elements as members of its ring(s). Heterocyclic chemistry is the branch of organic chemistry dealing with the synthesis, properties, and applications of these heterocycles. This text is a concise book that gives details of heterocyclic compounds. This book will also be useful to the students preparing for various competitive examinations. Much emphasis has been placed on chemical reactions and mechanisms of heterocyclic compounds. Each compound had been described in a clear and systematic manner. The subject-matter presented in each book, though concise, has adequate coverage of this subject; the important points wherever necessary have been highlighted; complex portion of the content has been interpreted in an easy to grasp manner; and long sequences of references of reactions have been summarized in short run flowcharts.

Basic Engineering Mathematics Dec 08 2021 Now in its seventh edition, Basic Engineering Mathematics is an established textbook that has helped thousands of students

to succeed in their exams. Mathematical theories are explained in a straightforward manner, being supported by practical engineering examples and applications in order to ensure that readers can relate theory to practice. The extensive and thorough topic coverage makes this an ideal text for introductory level engineering courses. This title is supported by a companion website with resources for both students and lecturers, including lists of essential formulae, multiple choice tests, and full solutions for all 1,600 further questions.

Engineering Chemistry Aug 16 2022 Some chapters in the book deal with the basic principles of chemistry while others are focused on its applied aspects, providing the correct interphase between the principles of chemistry and engineering. **KEY FEATURES** * Chapters cover both basic principles of chemistry as also its applied aspects. * Written in easy self-explanatory language and in depth at the same time. * Review questions provided at the end of each chapter. * A separate section 'Laboratory Manual' in *Engineering Chemistry* comprising 12 experiments is appended at the end of the book.

A New Concise Inorganic Chemistry May 01 2021

Engineering Chemistry Aug 28 2023

Organic Chemistry Mar 23 2023 Organic chemistry is a discipline within chemistry that involves the scientific study of the structure, properties, composition, reactions, and preparation of carbon-based compounds, hydrocarbons, and their derivatives, these compounds may contain any number of other elements, including hydrogen, nitrogen, oxygen, the halogens as well as phosphorus, silicon and sulphur. Organic compounds are structurally diverse and the range of application of organic compounds is enormous. Organic Chemistry provides an easy access to the core information in the field and makes a comprehensive approach to disseminate information in a clear and systematic manner. The book is presented and organized in a way to discourage students from rote learning. It covers all the topics in Organic Chemistry which are normally included in the syllabi of Indian universities for undergraduate courses. Special emphasis has

been given to the basic concepts viz. acids and bases, hybridization and resonance. Though, the study of Organic Chemistry may be complex, it is very important in everyday life. Although many books on the subject are available in the market, yet, there is a dearth. Hence this humble effort, will hopefully prove to be beneficial for all concerned readers.

Advanced Applied Mathematics May 21 2020 The book deals with advanced topics of applied mathematics taught in universities and technical institutions. The subject matter is presented in 15 chapters. The first chapter offers the pre-requisites starting from numbers extending up to complex numbers. Vivid topics on group theory, vector algebra and vector calculus are included. The second chapter offers a comprehensive course on 'ordinary differential equations (ODE)' needed in the subsequent discussion. Möbius transformations, Laplace transform, inverse Laplace transform, their applications to solve ODEs, Fourier series, Bessel's and wave equations are dealt in detail while multi-valued functions, diffusion equation, rotation group and non-relativistic scattering are briefly covered. The book is suitable for one year/two semester course for graduate students with 3 hours weekly credits. The presentation is made as lucid as possible based on the author's long teaching experience of the subject for over 5 decades at different universities worldwide. For more details, please visit <https://centralwestpublishing.com>

ENGG CHEMISTRY - VTU 2010 Jul 27 2023 This book has been designed to provide a comprehensive exposure to the first course on Engineering Chemistry taken by the undergraduate students of engineering. Lucid presentation, simple language along with clear illustrations and applications makes this book an easy text to read and understand the concepts. Feature: • Provides a perfect link between the fundamental concepts and their relevant applications • Lab-manual with details of all the 12 lab experiments • 5 Solved previous years' question papers

Advanced Engineering Mathematics, 22e Apr 12 2022 "Advanced Engineering Mathematics" is written for the students of all

engineering disciplines. Topics such as Partial Differentiation, Differential Equations, Complex Numbers, Statistics, Probability, Fuzzy Sets and Linear Programming which are an important part of all major universities have been well-explained. Filled with examples and in-text exercises, the book successfully helps the student to practice and retain the understanding of otherwise difficult concepts.

Engineering Mathematics-II Mar 11 2022 About the Book: This book Engineering Mathematics-II is designed as a self-contained, comprehensive classroom text for the second semester B.E. Classes of Visveswaraiyah Technological University as per the Revised new Syllabus. The topics included are Differential Calculus, Integral Calculus and Vector Integration, Differential Equations and Laplace Transforms. The book is written in a simple way and is accompanied with explanatory figures. All this make the students enjoy the subject while they learn. Inclusion of selected exercises and problems make the book educational in nature. It shou.

Physical Chemistry Feb 22 2023 Physical chemistry is the branch of chemistry that is concerned with the application of physics to chemical systems. This may involve the application of the principles of thermodynamics, quantum mechanics, quantum chemistry, statistical mechanics and kinetics to the study of chemistry. Physical chemistry, in contrast to chemical physics, is predominantly (but not always) a macroscopic or supra-molecular science, as the majority of the principles on which physical chemistry was founded, are concepts related to the bulk rather than on molecular/atomic structure alone. Physical chemistry is the study of how matter behaves on a molecular and atomic level and how chemical reactions occur. Based on their analyses, physical chemists may develop new theories, such as how complex structures are formed. Physical chemists often work closely with materials scientists to research and develop potential uses for new materials. Nuclear chemistry is the subfield of general chemistry dealing with nuclear processes, radioactivity and nuclear properties of atoms. It

deals with the composition of nuclear forces, nuclear reactions and radioactive materials. Nuclear chemistry bases the formation of artificial radioactivity. It is the chemistry of radioactive elements such as the radium, actinides and radon together with the chemistry associated with equipments such as nuclear reactors which are specially designed to perform nuclear processes. This book offers arresting illustrations that set it apart from others of its kind. The author focuses on core topics of physical chemistry, presented within a modern framework of applications.

Chemistry in Engineering and Technology Oct 26 2020

Text Book of Environmental Studies Aug 24 2020

Handbook of Polymers in Medicine Sep 17 2022 *Handbook of Polymers in Medicine* combines core concepts and advanced research on polymers, providing a better understanding of this class of materials in medicine. The book covers all aspects of medical polymers from characteristics and biocompatibility, to the diverse array of applications in medicine. Chapters cover an introduction to polymers in medicine and the challenges associated with biocompatibility in human tissue, polyurethane and supramolecular polymers and their specific applications in medicine, from tissue regeneration to orthopedic surgery and cancer therapeutics. This book offers an interdisciplinary approach that will appeal to researchers in a range of disciplines, including biomedical engineering, materials science, chemistry, pharmacology and translational medicine. The book will also make a useful reference for clinicians and those in medical fields who are interested in materials for medical applications, as well as R&D groups involved in medical device design. Systematically covers individual polymer classes, from characteristics and biocompatibility to applications in biomedicine Covers a broad range of applications in medicine, such as cardiac tissue engineering, targeted drug delivery, dentistry, and more Provides an interdisciplinary review of polymers in medicine, allowing advanced students and experienced researchers in a range of biomedical and clinical fields to

learn more about this fast-evolving area

Basic Electrical and Electronics Engineering: Jul 23 2020
Basic Electrical and Electronics Engineering provides an overview of the basics of electrical and electronic engineering that are required at the undergraduate level. The book allows students outside electrical and electronics engineering to easily

A Guide to Introductory Nematology Mar 31 2021 This book is designed for undergraduate agricultural science students, farmers and farm extension personnel to provide a comprehensive description of plant-parasitic nematodes. It is constructed with 16 different chapters comprising of: an introduction; a brief history of plant nematology; the economic importance of nematodes; general characteristics of a plant-parasitic nematode; general morphology of nematodes; the anatomy of nematodes; the general life cycle biology of plant-parasitic nematodes; taxonomy/systematics/classification of major plant-parasitic nematodes; classification of nematodes based on feeding habits; identification keys for major plant-parasitic nematodes; damage symptoms caused by the nematodes; interaction of nematodes with other microbial pathogens; different methods of nematode control; prominent nematode resistant crop cultivars; the concept of integrated nematode management; nematode parasites of important agricultural and horticultural crops with their management practices; and fundamental nematological techniques. The introduction covers the definition of nematodes, history of nematology, the yield loss caused by nematodes, some important animal parasitic nematodes, and beneficial nematodes including nematodes used in insect control, weed control, and biological monitoring systems. The morphology and anatomy of nematodes are simply explained with detailed diagrams. The taxonomy classification structure based on evolutionary concepts are provided with major differentiation characteristics between important groups. The life cycle of different feeding groups of plant-parasitic nematodes is illustrated with simple illustrations. Identification keys and symptoms of nematode damage are described with suitable

images. Overall, nematode control techniques available in literature are summarised briefly with suitable photographs wherever needed. The nematode pests, their symptoms and specific control measures for major agro-horticultural crops like rice, wheat, cotton, pulses, groundnuts, vegetables, potatoes, bananas, citrus, grapevines, spices, medicinal plants and flower crops are discussed. The final chapter of this book presents some basic nematode techniques, including nematode extraction protocols, nematode fixing, and mounting techniques. Overall, this fundamental and easy-to-understand book will be particularly useful for students in the biological and agricultural sciences, agronomists, agricultural extension workers and farmers to enable them to gain more insight and equip them with knowledge to solve problems concerning nematodes.

BASIC ELECTRONICS Jun 21 2020 This comprehensive and well-organized text discusses the fundamentals of electronic communication, such as devices and analog and digital circuits, which are so essential for an understanding of digital electronics. Professor Santiram Kal, with his wealth of knowledge and his years of teaching experience, compresses, within the covers of a single volume, all the aspects of electronics - both analog and digital - encompassing devices such as microprocessors, microcontrollers, fibre optics, and photonics. In so doing, he has struck a fine balance between analog and digital electronics. A distinguishing feature of the book is that it gives case studies in modern applications of electronics, including information technology, that is, DBMS, multimedia, computer networks, Internet, and optical communication. Worked-out examples, interspersed throughout the text, and the large number of diagrams should enable the student to have a better grasp of the subject. Besides, exercises, given at the end of each chapter, will sharpen the student's mind in self-study. These student-friendly features are intended to enhance the value of the text and make it both useful and interesting.

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