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Essentials of Physical Chemistry - Arun Bahl
Essentials of Physical Chemistry is a classic textbook on the subject explaining fundamentals concepts with discussions, illustrations and exercises. With clear explanation, systematic presentation, and scientific accuracy, the book not only helps the students clear misconceptions about the basic concepts but also enhances students' ability to analyse and systematically solve problems. This bestseller is primarily designed for B.Sc. students and would equally be useful for the aspirants of medical and engineering entrance examinations.

Reviews of Reactive Intermediate Chemistry - Matthew S. Platz 2007-04-20
The chemistry of reactive intermediates is central to a modern mechanistic and quantitative understanding of organic chemistry. Moreover, it underlies a significant portion of modern synthetic chemistry and is integral to a molecular view of biological chemistry. Reviews in Reactive Intermediate Chemistry presents an up-to-date, authoritative guide to this fundamental topic. Although it follows Reactive Intermediate Chemistry by the same authors, it serves as a free-standing resource for the entire chemical and biochemical community. The book includes: Relevant, practical applications
Coverage of such topics as mass spectrometry methods, reactive intermediates in interstellar medium, quantum mechanical tunnelling, solvent effects, reactive intermediates in biochemical processes, and excited state surfaces
Discussions of emerging areas, particularly those involving dynamics and theories
Concluding sections identifying key directions for future research are provided at the end of each chapter

Meat Science and Nutrition - Muhammad Sajid Arshad 2018-10-10

Meat holds an important position in human nutrition. Although protein from this source has lower biological value than egg albumin, it is an exclusive source of heme iron and vitamins and minerals. Fat content and fatty acid profile from this source are a constant matter of concern. Though currently meat utilization is linked with an array of maladies, including atherosclerosis, leukemia, and diabetes, meat has a noteworthy role not only for safeguarding proper development and health, but also in human wellbeing. Enormous scientific investigations have proved that consuming meat has had a beneficial role in cranial/dental and gastrointestinal tract morphologic changes, human upright stance, reproductive attributes, extended lifespan, and maybe most prominently, in brain and cognitive development.

Intelligent Information and Database Systems - Ngoc Thanh Nguyen 2019-04-02

The two-volume set LNAI 11431 and 11432 constitutes the refereed proceedings of the 11th Asian Conference on Intelligent Information and Database Systems, ACIIDS 2019, held in Yogyakarta, Indonesia, in April 2019. The total of 124 full papers accepted for publication in these proceedings were carefully reviewed and selected from 309 submissions. The papers of the first volume are organized in the following topical sections: knowledge engineering and semantic web; text processing and information retrieval; machine learning and data mining; decision support and control systems; computer vision techniques; and databases and intelligent information systems. The papers of the second volume are divided into these topical sections:

collective intelligence for service innovation, technology management, E-learning, and fuzzy intelligent systems; data structures modelling for knowledge representation; advanced data mining techniques and applications; intelligent information systems; intelligent methods and artificial intelligence for biomedical decision support systems; intelligent and contextual systems; intelligent systems and algorithms in information sciences; intelligent supply chains and e-commerce; sensor networks and Internet of Things; analysis of image, video, movements and brain intelligence in life sciences; and computer vision and intelligent systems.

The Structure and Function of Nucleic Acids

- Charles F. A. Bryce 1990

The Tragical History of the Life and Death of Doctor Faustus

- Christopher Marlowe
1997-01-01

Plant Growth-Promoting Microbes for Sustainable Biotic and Abiotic Stress Management

- Heba I. Mohamed 2021-05-02
Abiotic and biotic stress factors, including drought, salinity, waterlog, temperature extremes, mineral nutrients, heavy metals, plant diseases, nematodes, viruses, and diseases, adversely affect growth as well as yield of crop plants worldwide. Plant growth-promoting microorganisms (PGPM) are receiving increasing attention from agronomists and environmentalists as candidates to develop an effective, eco-friendly, and sustainable alternative to conventional agricultural (e.g., chemical fertilizers and pesticide) and remediation (e.g., chelators-enhanced phytoremediation) methods employed to deal with climate change-induced stresses. Recent studies have shown that plant growth-promoting bacteria (PGPB), rhizobia, arbuscular mycorrhizal fungi (AMF), cyanobacteria have great potentials in the management of various agricultural and environmental problems. This book provides current research of biofertilizers and the role of microorganisms in plant health, with specific emphasis on the mitigating strategies to combat plant stresses.

Principles of Chemical Instrumentation

- Gary T. Bender 1987

Surveys the theory and practice of instrumental

analysis as it is applied in clinical chemistry and molecular biology. A text for students who have a background in quantitative chemical analysis and algebra

Biodiesel Technology and Applications

- Inamuddin 2021-07-21

BIODIESEL This outstanding new volume provides a comprehensive overview on biodiesel technologies, covering a broad range of topics and practical applications, edited by one of the most well-respected and prolific engineers in the world and his team. Energy technologies have attracted great attention due to the fast development of sustainable energy. Biodiesel technologies have been identified as the sustainable route through which overdependence on fossil fuels can be reduced. Biodiesel has played a key role in handling the growing challenge of a global climate change policy. Biodiesel is defined as the monoalkyl esters of vegetable oils or animal fats. Biodiesel is a cost-effective, renewable, and sustainable fuel that can be made from vegetable oils and animal fats. Compared to petroleum-based diesel, biodiesel would offer a non-toxicity, biodegradability, improved air quality and positive impact on the environment, energy security, safe-to-handle, store and transport and so on. Biodiesels have been used as a replacement of petroleum diesel in transport vehicles, heavy-duty trucks, locomotives, heat oils, hydrogen production, electricity generators, agriculture, mining, construction, and forestry equipment. This book describes a comprehensive overview, covering a broad range of topics on biodiesel technologies and allied applications. Chapters cover history, properties, resources, fabrication methods, parameters, formulations, reactors, catalysis, transformations, analysis, in situ spectroscopies, key issues and applications of biodiesel technology. It also includes biodiesel methods, extraction strategies, biowaste utilization, oleochemical resources, non-edible feedstocks, heterogeneous catalysts, patents, and case-studies. Progress, challenges, future directions, and state-of-the-art biodiesel commercial technologies are discussed in detail. This book is an invaluable resource guide for professionals, faculty, students, chemical engineers, biotechnologists, and environmentalists in these research and

development areas. This outstanding new volume: Summarizes the recent developments in this rapidly-developing, multi-disciplinary field Provides the reader with a practical understanding of biodiesel technology toward the real-world applications Formulates concepts, case-studies, patents, and applications helpful in decision making and problem-solving, in a single resource Delivers state-of-the-art information on biodiesel technology Audience: Chemical and process engineers and other professionals, faculty, students, scientists, biotechnologists, and environmental engineers

Advanced Practical Organic Chemistry, Second Edition - John Leonard 1994-06-02

The first edition of this book achieved considerable success due to its ease of use and practical approach, and to the clear writing style of the authors. The preparation of organic compounds is still central to many disciplines, from the most applied to the highly academic and, more than ever is not limited to chemists. With an emphasis on the most up-to-date techniques commonly used in organic syntheses, this book draws on the extensive experience of the authors and their association with some of the world's leading laboratories of synthetic organic chemistry. In this new edition, all the figures have been re-drawn to bring them up to the highest possible standard, and the text has been revised to bring it up to date. Written primarily for postgraduate, advanced undergraduate and industrial organic chemists, particularly those involved in pharmaceutical, agrochemical and other areas of fine chemical research, the book is also a source of reference for biochemists, biologists, genetic engineers, material scientists and polymer researchers. Modern Inorganic Chemistry - William L. Jolly 1991

ZOOLOGY - STEPHEN. MILLER 2015

"The 10th edition of Zoology continues to offer students an introductory general zoology text that is manageable in size and adaptable to a variety of course formats."--Provided by publisher

Carotenoids: Structure and Function in the Human Body - Muhammad Zia-Ul-Haq 2021-03-21

Plants produce chemicals as part of their normal

metabolic activities. These include primary metabolites found in all plants, such as sugars and fats, as well as secondary metabolites, which can have therapeutic effects in humans and be refined to produce drugs. Plants synthesize a bewildering variety of phytochemicals, but most are derivatives of a few biochemical motifs. Numerous herbal-derived substances have been evaluated for their therapeutic potential. These include alkaloids, coumarins, saponins, plant pigments and flavonoids. Flavonoids, carotenoids and anthocyanins are probably the best known of these substances due to their antioxidant properties. Carotenoids: Structure and Function in the Human Body presents comprehensive coverage of carotenoids. The text covers the scientific literature and clinical significance of this organic pigment, with an emphasis on its therapeutic potential. The authors approach carotenoids from a range of perspectives, from their structural and physicochemical properties to their distribution in nature, interaction with the human metabolism, and use as a coloring agent in various products. The intake, metabolism and secretion of anthocyanins in the human body are covered in-depth, as are the biosynthetic pathways through which these compounds are synthesized in the natural system. Factors affecting stability and extraction are listed, and health-related uses and biological activities are covered in great detail. Present and future trends in carotenoid research are also presented. This book provides a solid background in carotenoids for researchers and professionals in food science, food technology, nutrition, biology, chemistry and medical sciences.

Mathematics for Chemists - David Michael Hirst 1979

Contents - Preface - 1. REVIEW OF BASIC MATERIAL - FUNCTIONS, INEQUALITIES - 2. DIFFERENTIAL CALCULUS - 3. INTEGRATION - 4. FUNCTIONS OF MANY VARIABLES ; PARTIAL DIFFERENTIATION - 5. VECTORS - 6. SERIES, TAYLOR-MACLAURIN SERIES - 7. COMPLEX NUMBERS - 8. ORTHOGONAL FUNCTIONS AND FOURIER SERIES - 9. DETERMINANTS - 10. MATRICES - 11. DIFFERENTIAL EQUATIONS - 12. PARTIAL DIFFERENTIAL EQUATIONS - 13. NUMERICAL

METHODS - 14. ELEMENTARY STATISTICS AND ERROR ANALYSIS - Problems for Solution - Bibliography - Answers to Problems - Index
Comparative Inorganic Chemistry - Bernard John Moody 1969

The Structure and Properties of Water - D Eisenberg 2005-10-20

The authors have correlated many experimental observations and theoretical discussions from the scientific literature on water. Topics covered include the water molecule and forces between water molecules; the thermodynamic properties of steam; the structures of the ices; the thermodynamic, electrical, spectroscopic, and transport properties of the ices and of liquid water; hydrogen bonding in ice and water; and models for liquid water. The main emphasis of the book is on relating the properties of ice and water to their structures. Some background material in physical chemistry has been included in order to ensure that the material is accessible to readers in fields such as biology, biochemistry, and geology, as well as to chemists and physicists.

The Periodic Table - Adrian Dingle 2014

The original Basher Science - made even better!
Nanomaterials and Environmental Biotechnology - Indu Bhushan 2020-02-22

Nanotechnology is considered as one of the emerging fields of science. It has applications in different biological and technological fields which deal with the science of materials at nanoscale (10⁻⁹). On the other hand, biotechnology is another field that deals with contemporary challenges. Nanobiotechnology fills the gap between these two fields. It merges physical, chemical, and biological principles in a single realm. This combination opens up new possibilities. At nanoscale dimensions, it creates precise nanocrystals and nanoshells. Integrated nanomaterials are used with modified surface layers for compatibility with living systems, improved dissolution in water, or biorecognition leading to enhanced end results in biotechnological systems. These nanoparticles can also be hybridized with additional biocompatible substances in order to amend their qualities to inculcate novel utilities. Nanobiotechnology is used in bioconjugate chemistry by coalescing up the functionality of

non-organically obtained molecular components and biological molecules in order to veil the immunogenic moieties for targeted drug delivery, bioimaging and biosensing. This book blends the science of biology, medicine, bioinorganic chemistry, bioorganic chemistry, material and physical sciences, biomedical engineering, electrical, mechanical, and chemical science to present a comprehensive range of advancements. The development of nano-based materials has made for a greater understanding of their characterization, using techniques such as transmission electron microscope, FTIR, X-ray diffraction, scanning electron microscope EDX, and so on. This volume also highlights uses in environmental remediation, environmental biosensors and environmental protection. It also emphasizes the significance of nanobiotechnology to a series of medical applications viz., diagnostics, and therapeutics stem cell technology, tissue engineering enzyme engineering, drug development and delivery. In addition this book also offers a distinctive understanding of nanobiotechnology from researchers and educators and gives a comprehensive facility for future developments and current applications of nanobiotechnology.

Banking Finance & Accounting - Alexander Fredrick 2005

Handbook of Ecotoxicology, Second Edition - David J. Hoffman 2002-11-13

Handbook of Ecotoxicology, Second Edition focuses on toxic substances and how they affect ecosystems worldwide. It presents methods for quantifying and measuring ecotoxicological effects in the field and in the lab, as well as methods for estimating, predicting, and modeling in ecotoxicology studies. Completely revised and updated with 18 new chapters, this second edition includes contributions from over 75 international experts. Also, a Technical Review Board reviewed all manuscripts for accuracy and currency. This authoritative work is the definitive reference for students, researchers, consultants, and other professionals in the environmental sciences, toxicology, chemistry, biology, and ecology - in academia, industry, and government.

Practical Inorganic Chemistry - G. Pass

2013-03-09

In revising the text opportunity has been taken to introduce SI units throughout. An Appendix has been included which contains tables of SI units and a table of conversion factors for use when consulting data in non-SI units. Chapter 19 now includes experiments demonstrating the use of ion-exchange and solid-liquid chromatography. Exercises involving colorimetry have been included in Chapter 17. These techniques are introduced as part of a complementary exercise where their relevance is seen as part of a complete piece of work. Minor improvements have been made to some of the experimental procedures and we are grateful to those who have made helpful suggestions in this respect. G. PASS H. SUTCLIFFE iii Preface to the First Edition The student of inorganic chemistry is fortunate in having a wide choice of textbooks covering the descriptive and theoretical aspects of the subject. There is no comparable choice of textbooks covering practical inorganic chemistry. Moreover, there is a tendency for many students to draw an unfortunate distinction between chemistry taught in the lecture room, and laboratory work. Consideration of these points prompted the preparation of this book, in which we have attempted to emphasize the relationship between theory and practice.

Algebra and Trigonometry - Jay P. Abramson
2015-02-13

"The text is suitable for a typical introductory algebra course, and was developed to be used flexibly. While the breadth of topics may go beyond what an instructor would cover, the modular approach and the richness of content ensures that the book meets the needs of a variety of programs."--Page 1.

Plant Based "Green Chemistry 2.0" - Ying Li
2019

This book provides practical information on obtaining and using a wide variety of plant based reagents for different sectors, addressing the needs and challenges in a single resource. The chapters complement each other seamlessly and present contributions from reputed international researchers and renowned professionals from industry, covering the latest efforts in the field. The book serves as the starting point for future collaborations in the

new area "Plant Based Green Chemistry" between research, industry, and education, covering large ecologic and economic applications: perfume, cosmetic, pharmaceutical, food ingredients, nutraceuticals, biofuels, or fine chemicals industries. This book is aimed at professionals from industries, academicians engaged in plant based green chemistry, researchers and graduate level students, but will also be useful to food technologists and students and researchers involved in natural products chemistry.

Islamic Political Thought - Gerhard Bowering
2015-03-29

A concise and authoritative introduction to Islamic political ideas In sixteen concise chapters on key topics, this book provides a rich, authoritative, and up-to-date introduction to Islamic political thought from the birth of Islam to today, presenting essential background and context for understanding contemporary politics in the Islamic world and beyond. Selected from the acclaimed Princeton Encyclopedia of Islamic Political Thought, and focusing on the origins, development, and contemporary importance of Islamic political ideas and related subjects, each chapter offers a sophisticated yet accessible introduction to its topic. Written by leading specialists and incorporating the latest scholarship, the alphabetically arranged chapters cover the topics of authority, the caliphate, fundamentalism, government, jihad, knowledge, minorities, modernity, Muhammad, pluralism and tolerance, the Qur'an, revival and reform, shari'a (sacred law), traditional political thought, 'ulama' (religious scholars), and women. Read separately or together, these chapters provide an indispensable resource for students, journalists, policymakers, and anyone else seeking an informed perspective on the complex intersection of Islam and politics. The contributors are Gerhard Bowering, Ayesha S. Chaudhry, Patricia Crone, Roxanne Euben, Yohanan Friedmann, Paul L. Heck, Roy Jackson, Wadad Kadi, John Kelsay, Gudrun Krämer, Ebrahim Moosa, Armando Salvatore, Aram A. Shahin, Emad El-Din Shahin, Devin J. Stewart, SherAli Tareen, and Muhammad Qasim Zaman. A new afterword discusses the essays in relation to contemporary political developments.

Chemical Laboratory Safety and Security -

National Academies of Sciences, Engineering, and Medicine 2016-08-07

The U.S. Department of State charged the Academies with the task of producing a protocol for development of standard operating procedures (SOPs) that would serve as a complement to the Chemical Laboratory Safety and Security: A Guide to Prudent Chemical Management and be included with the other materials in the 2010 toolkit. To accomplish this task, a committee with experience and knowledge in good chemical safety and security practices in academic and industrial laboratories with awareness of international standards and regulations was formed. The hope is that this toolkit expansion product will enhance the use of the previous reference book and the accompanying toolkit, especially in developing countries where safety resources are scarce and experience of operators and end-users may be limited.

Endocrine Disrupting Chemicals-induced Metabolic Disorders and Treatment Strategies - Muhammad Sajid Hamid Akash 2020-08-04

This volume offers a detailed and comprehensive analysis of Endocrine Disrupting Chemicals (EDCs), covering their occurrence, exposure to humans and the mechanisms that lead to the pathogenesis of EDCs-induced metabolic disorders. The book is divided into three parts. Part I describes the physiology of the human endocrine system, with special emphasis on various types of metabolic disorders along with risk factors that are responsible for the development of these disorders. Part II addresses all aspects of EDCs, including their role in the induction of various risk factors that are responsible for the development of metabolic disorders. Part III covers up-to-date environmental regulatory considerations and treatment strategies that have been adopted to cure and prevent EDCs-induced metabolic disorders. This section will primarily appeal to clinicians investigating the causes and treatment of metabolic disorders. The text will also be of interest to students and researchers in the fields of Environmental Pharmacology and Toxicology, Environmental Pollution, Pharmaceutical Biochemistry, Biotechnology, and Drug Metabolism/Pharmacokinetics.

Basher Science: The Complete Periodic

Table - Adrian Dingle 2017-01-31

Do you confuse boron with barium or chlorine with fluorine? Fear not! Basher Science has come to the rescue by mixing science and art to create a unique periodic table. From unassuming oxygen to devious manganese, the incredible elements show you the periodic table as you've never seen it before. Basher Science: The Periodic Table gives a face, voice and personality to the chemical elements, making learning chemistry easy and a whole lot more fun. This new expanded edition reflects the latest discoveries, and now each of the 115 elements has not just a picture but an information-packed page all to itself. Basher's highly original books make difficult concepts tangible, understandable and even lovable. With his stylish, contemporary characters he communicates science brilliantly.

Bioinformatics - Andreas D. Baxevanis 2004-03-24

"In this book, Andy Baxevanis and Francis Ouellette . . . have undertaken the difficult task of organizing the knowledge in this field in a logical progression and presenting it in a digestible form. And they have done an excellent job. This fine text will make a major impact on biological research and, in turn, on progress in biomedicine. We are all in their debt." —Eric Lander from the Foreword Reviews from the First Edition "...provides a broad overview of the basic tools for sequence analysis ... For biologists approaching this subject for the first time, it will be a very useful handbook to keep on the shelf after the first reading, close to the computer." —Nature Structural Biology "...should be in the personal library of any biologist who uses the Internet for the analysis of DNA and protein sequence data." —Science "...a wonderful primer designed to navigate the novice through the intricacies of in scripto analysis ... The accomplished gene searcher will also find this book a useful addition to their library ... an excellent reference to the principles of bioinformatics." —Trends in Biochemical Sciences This new edition of the highly successful Bioinformatics: A Practical Guide to the Analysis of Genes and Proteins provides a sound foundation of basic concepts, with practical discussions and comparisons of both computational tools and databases relevant to

biological research. Equipping biologists with the modern tools necessary to solve practical problems in sequence data analysis, the Second Edition covers the broad spectrum of topics in bioinformatics, ranging from Internet concepts to predictive algorithms used on sequence, structure, and expression data. With chapters written by experts in the field, this up-to-date reference thoroughly covers vital concepts and is appropriate for both the novice and the experienced practitioner. Written in clear, simple language, the book is accessible to users without an advanced mathematical or computer science background. This new edition includes: All new end-of-chapter Web resources, bibliographies, and problem sets Accompanying Web site containing the answers to the problems, as well as links to relevant Web resources New coverage of comparative genomics, large-scale genome analysis, sequence assembly, and expressed sequence tags A glossary of commonly used terms in bioinformatics and genomics Bioinformatics: A Practical Guide to the Analysis of Genes and Proteins, Second Edition is essential reading for researchers, instructors, and students of all levels in molecular biology and bioinformatics, as well as for investigators involved in genomics, positional cloning, clinical research, and computational biology.

Applied Atomic Spectroscopy - E. L. Grove
2013-03-09

From the first appearance of the classic *The Spectrum Analysis* in 1885 to the present the field of emission spectroscopy has been evolving and changing. Over the last 20 to 30 years in particular there has been an explosion of new ideas and developments. Of late, the aura of glamour has supposedly been transferred to other techniques, but, nevertheless, it is estimated that 75% or more of the analyses done by the metal industry are accomplished by emission spectroscopy. Further, the excellent sensitivity of plasma sources has created a demand for this technique in such divergent areas as direct trace element analyses in polluted waters. Developments in the replication process and advances in the art of producing ruled and holographic gratings as well as improvements in the materials from which these gratings are made have made excellent gratings

available at reasonable prices. This availability and the development of plane grating mounts have contributed to the increasing popularity of grating spectrometers as compared with the large prism spectrograph and concave grating mounts. Other areas of progress include new and improved methods for excitation, the use of controlled atmospheres and the extension of spectrometry into the vacuum region, the widespread application of the techniques for analysis of nonmetals in metals, the increasing use of polychrometers with concave or echelle gratings and improved readout systems for better reading of spectrographic plates and more efficient data handling.

Statistical Mechanics for Engineers - Isamu Kusaka 2015-09-10

This book provides a gentle introduction to equilibrium statistical mechanics. The particular aim is to fill the needs of readers who wish to learn the subject without a solid background in classical and quantum mechanics. The approach is unique in that classical mechanical formulation takes center stage. The book will be of particular interest to advanced undergraduate and graduate students in engineering departments.

Pond Aquaculture Water Quality Management - Boyd Claude E. Et. Al 2008-12-01

Schaum's Outline of Vector Analysis, 2ed - Murray R. Spiegel 2009-05-04

The guide to vector analysis that helps students study faster, learn better, and get top grades More than 40 million students have trusted Schaum's to help them study faster, learn better, and get top grades. Now Schaum's is better than ever-with a new look, a new format with hundreds of practice problems, and completely updated information to conform to the latest developments in every field of study. Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time- and get your best test scores! Schaum's Outlines-Problem Solved.

Introduction to Real Analysis - Robert G. Bartle 1999-08-06

Principles of Microeconomics 2e - Steven A. Greenlaw 2017-09-15

Principles of Concurrent and Distributed Programming - M. Ben-Ari 2006

Principles of Concurrent and Distributed Programming provides an introduction to concurrent programming focusing on general principles and not on specific systems. Software today is inherently concurrent or distributed - from event-based GUI designs to operating and real-time systems to Internet applications. This edition is an introduction to concurrency and examines the growing importance of concurrency constructs embedded in programming languages and of formal methods such as model checking.

Laboratory Studies in Integrated Principles of Zoology - Jr. Hickman, Cleveland 2007-09-28

Laboratory Studies in Integrated Principles of Zoology uses a comprehensive, phylogenetic approach in emphasizing basic biological principles, animal form and function, and evolutionary concepts. This introductory lab manual is ideal for a one- or two-semester course. The new edition expertly combines up-to-date coverage with the clear writing style and dissection guides that have distinguished this manual from edition to edition.

Cells: Molecules and Mechanisms - Eric Wong 2009

"Yet another cell and molecular biology book? At the very least, you would think that if I was going to write a textbook, I should write one in an area that really needs one instead of a subject that already has multiple excellent and definitive books. So, why write this book, then? First, it's a course that I have enjoyed teaching for many years, so I am very familiar with what a student really needs to take away from this class within the time constraints of a semester. Second, because it is a course that many students take, there is a greater opportunity to make an impact on more students' pocketbooks than if I were to start off writing a book for a highly specialized upper-level course. And finally, it was fun to research and write, and can be revised easily for inclusion as part of our next textbook, High School Biology."--Open Textbook Library.

Group Theory I - M. Suzuki 1982

Feynman Lectures On Computation - Richard P. Feynman 2018-07-03

When, in 1984?86, Richard P. Feynman gave his

famous course on computation at the California Institute of Technology, he asked Tony Hey to adapt his lecture notes into a book. Although led by Feynman, the course also featured, as occasional guest speakers, some of the most brilliant men in science at that time, including Marvin Minsky, Charles Bennett, and John Hopfield. Although the lectures are now thirteen years old, most of the material is timeless and presents a 'Feynmanesque' overview of many standard and some not-so-standard topics in computer science such as reversible logic gates and quantum computers.

Soil Microenvironment for Bioremediation and Polymer Production - Nazia Jamil 2020-01-09

Describes harmful elements and their bioremediation techniques for tannery waste, oil spills, wastewater, greenhouse gases, plastic and other wastes. Microenvironmental conditions in soil provide a natural niche for ultra-structures, microbes and microenvironments. The natural biodiversity of these microenvironments is being disturbed by industrialization and the proliferation of urban centers, and synthetic contaminants found in these micro-places are causing stress and instability in the biochemical systems of microbes. The development of new metabolic pathways from intrinsic metabolic cycles facilitate microbial degradation of diverse resistant synthetic compounds present in soil. These are a vital, competent and cost-effective substitute to conventional treatments. Highly developed techniques for bioremediation of these synthetic compounds are increasing and these techniques facilitate the development of a safe environment using renewable biomaterial for removal of toxic heavy metals and xenobiotics. *Soil Microenvironment for Bioremediation and Polymer Production* consists of 21 chapters by subject matter experts and is divided into four parts: *Soil Microenvironment and Biotransformation Mechanisms*; *Synergistic Effects between Substrates and Microbes*; *Polyhydroxyalakanates: Resources, Demands and Sustainability*; and *Cellulose-Based Biomaterials*. This timely and important book highlights Chapters on classical bioremediation approaches and advances in the use of nanoparticles for removal of radioactive waste. Discusses the production of applied emerging

biopolymers using diverse microorganisms
Provides the most innovative practices in the
field of bioremediation Explores new techniques

that will help to improve biopolymer production
from bacteria Provides novel concepts for the
most affordable and economic societal benefits.