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KEY=6013 - BARNETT WALKER

Specific Heats at Low Temperatures

Springer Science & Business Media This work was begun quite some time ago at the University of Oxford during the tenure of an Overseas Scholarship of the Royal Commission for the Exhibition of 1851 and was completed at Bangalore when the author was being supported by a maintenance allowance from the CSIR Pool for unemployed scientists. It is hoped that significant developments taking place as late as the beginning of 1965 have been incorporated. The initial impetus and inspiration for the work came from Dr. K. Mendelssohn. To him and to Drs. R. W. Hill and N. E. Phillips, who went through the whole of the text, the author is obliged in more ways than one. For permission to use figures and other materials, grateful thanks are tendered to the concerned workers and institutions. The author is not so sanguine as to imagine that all technical and literary flaws have been weeded out. If others come across them, they may be charitably brought to the author's notice as proof that physics has become too vast to be comprehended by a single onlooker. E. S. RAJA GoPAL Department of Physics Indian Institute of Science Bangalore 12, India November 1965 v Contents Introduction

The Chemistry of Mercury

Springer

Odours in Wastewater Treatment

IWA Publishing Wastewater treatment works have the potential to generate unpleasant odours, which can result in annoyance and consequently have a detrimental effect on a local population. As a result 'odour control and prevention' has become an important consideration both in the management of existing facilities and in the design and gaining of planning consent for new works. *Odours in Wastewater Treatment* provides readers with a detailed discussion on the basic principles involved in the formation of volatile compounds in wastewater treatment. Accounts are given of recent developments in the sampling and measurement of odours, practical examples in the prediction and dispersion of odorous emissions are offered and an overview of the technologies currently used to contain and treat odorous compounds presented. Contents Introduction Odours associated with wastewater treatment Odour sampling and measurement Assessment and prediction of nuisance odours Odour control and treatment

Methods of Protein Microcharacterization

A Practical Handbook

Springer Science & Business Media Milestones in the techniques and methodology of polypeptide structure determination include the determination of the sequence of insulin by Sanger in 1951 (1) and the introduction of the repetitive degradation of proteins with phenylisothiocyanate by Edman in 1959 (2). The automation of Edman chemistry (3) played a major role in the determination of polypeptide structures. Important modifications of Edman chemistry include the solid-phase approach by Laursen in 1971 (4) and the use of modified Edman reagents such as 4-N, N-dimethylaminoazobenzene-4'-isothiocyanate (DABITC) for manual sequencing by Chang et al. (5) in 1976. A second major breakthrough in the analysis of polypeptides was automated amino acid analysis described by Spackman et al. in 1958 (6). However, during the period from 1975 to 1980, it became increasingly clear that the amount of material required for structural analysis was more than could be easily isolated for the vast majority of proteins. The field was criticized for its lack of sensitive techniques for the analysis of growth factors, immune modulators, membrane receptors, and peptide hormones. In addition, very little had been done to modernize and improve the original instruments introduced in the mid-1960s. The first indications of improved instrumentation for Edman chemistry came from Wittmann-Liebold's laboratory (7), followed by the introduction of a "micro" sequencer by Hunkapiller and Hood in 1978 (8). The movement toward improved instrumentation culminated in the "gas"-Phase sequencer of Hewick et al. (9) in 1981.

Global Change Education Resource Guide

Tectonics of the Indian Subcontinent

Springer Nature This book documents the salient characters of the tectonic evolution of the Indian subcontinent. It showcases the well investigated subcontinent of Gondwana. The book is linked to an updated geological and tectonic map of this region on 1:12,000,000 in scale. The Indian subcontinent displays almost uninterrupted and unique the geological history since about Eo-Archean (~3800 Ma) to recent, with the development of many Proterozoic deformed and metamorphosed fold belts around Archean nuclei, and enormously thick undeformed platform deposits. After their stabilization during late Proterozoic, the subcontinent underwent Paleozoic rifting and deposition of coal-bearing thick sequences, followed by enormously-thick outpouring of Deccan volcanics as a consequence of huge mantle plume. The youngest event in its evolution is the Cenozoic Himalayan Orogenic Mountains, spanning the area between Nanga Parbat and Namcha Barwah; a part of which extends both in Pakistan and Myanmar.

Modern Tools for Time-Resolved Luminescence

Biosensing and Imaging

Frontiers Media SA

Ceiling Price Regulation

Microbial Technology for Health and Environment

Springer Nature Rampant industrialization has caused high levels of contamination by various toxic chemicals in our water bodies, which is a matter of concern in terms of ecosystems, as well as human and animal health. Polluted wastewater can contaminate drinking water and is also a causal factor for bio-magnification of heavy metals into our food cycle. In the last decade, several methodologies have been adopted to clean the wastewaters, and among these, microbial remediation has emerged as an effective technology. Several variants of microbial technologies have been developed for wastewater treatment and biodegradation specific to the industry, type of waste and toxicity of the chemicals. This book describes the recent advances in microbial degradation and microbial remediation of various xenobiotic compounds in soil and wastewater. It also explains various modern microbial technologies for biodegradation and wastewater treatment. It covers various microbial technologies for wastewater treatment, biodegradation, bioremediation and solid waste management. Gathering contributions from leading international it focuses on the status quo in industrial wastewater treatment and its biodegradation. The book is intended for researchers in the field of industrial wastewater, students of environmental sciences and practitioners in water pollution abatement.

Public Papers of the Presidents of the United States: John F. Kennedy, 1962

Best Books on Public Papers of the Presidents of the United States

Antiviral Agents

MDPI Antiviral agents are used for the treatment of viral diseases. Antiviral drugs have been successfully developed and used clinically for a limited number of important human viral diseases notably caused by human immunodeficiency virus (HIV), hepatitis C virus (HCV), hepatitis B virus (HBV), herpes, and influenza viruses. Despite the successes of these antiviral drugs, issues with drug resistance and toxicity remain challenging. These challenges are driving research to identify new drug candidates and to investigate novel drug targets to develop new mechanistic drug classes. Antiviral agents are not available against many viruses that cause human disease and economic burdens; in particular, the development of antiviral agents against emerging, re-emerging, and neglected viruses is increasingly becoming a priority. This book includes six review articles that discuss new antiviral strategies. The reviews either discuss advances relating to a specific virus or new therapeutic targets and approaches. The book includes 15 original research articles reporting new antiviral agents against a variety of clinically and economically important viruses and studies into the prevalence or acquisition of drug resistance. Overall, this book is an exciting collection of new research and ideas relating to the development of antiviral agents.

Flash Chemistry

Fast Organic Synthesis in Microsystems

John Wiley & Sons Have you ever wished you could speed up your organic syntheses without losing control of the reaction? Flash Chemistry is a new concept which offers an integrated scheme for fast, controlled organic synthesis. It brings together the generation of highly reactive species and their reactions in Microsystems to enable highly controlled organic syntheses on a preparative scale in timescales of a few seconds or less. Flash Chemistry: Fast Organic Synthesis in microsystems is the first book to describe this exciting new technique, with chapters covering: an introduction to flash chemistry reaction dynamics: how fast is the act of chemical transformation, what is the rate of reaction, and what determines the selectivity of a reaction? examples of why flash chemistry is needed: the rapid construction of chemical libraries, rapid synthesis of radioactive PET probes, and on-demand rapid synthesis in industry the generation of highly reactive species through thermal, microwave, chemical, photochemical, and electrochemical activation microsystems: What are microsystems and how are they made? Why is size so important? What are the characteristic features of microsystems? conduction and control of extremely fast reactions using microsystems applications of flash chemistry in organic synthesis polymer synthesis based on flash chemistry industrial applications of flash chemistry Flash Chemistry: Fast Organic Synthesis in Microsystems is an essential introduction to anyone working in organic synthesis, process chemistry, chemical engineering and physical organic chemistry concerned with fundamental aspects of chemical reactions and synthesis and the production of organic compounds.

The Metallurgists and Chemists' Handbook

Riparian Areas

Functions and Strategies for Management

National Academies Press The Clean Water Act (CWA) requires that wetlands be protected from degradation because of their important ecological functions including maintenance of high water quality and provision of fish and wildlife habitat. However, this protection generally does not encompass riparian areas—the lands bordering rivers and lakes—even though they often provide the same functions as wetlands. Growing recognition of the similarities in wetland and riparian area functioning and the differences in their legal protection led the NRC in 1999 to undertake a study of riparian areas, which has culminated in Riparian Areas: Functioning and Strategies for Management. The report is intended to heighten awareness of riparian areas commensurate with their ecological and societal values. The primary conclusion is that, because riparian areas perform a disproportionate number of biological and physical functions on a unit area basis, restoration of riparian functions along America's waterbodies should be a national goal.

The National Production Authority

Thermophilic Microbes in Environmental and Industrial Biotechnology

Biotechnology of Thermophiles

Springer Science & Business Media The existence of life at high temperatures is quiet fascinating. At elevated temperatures, only microorganisms are capable of growth and survival. Many thermophilic microbial genera have been isolated from man-made (washing machines, factory effluents, waste streams and acid mine effluents) and natural (volcanic areas, geothermal areas, terrestrial hot springs, submarine hydrothermal vents, geothermally heated oil reserves and oil wells, sun-heated litter and soils/sediments) thermal habitats throughout the world. Both culture-dependent and culture-independent approaches have been employed for understanding the diversity of microbes in hot environments. Interest in their diversity, ecology, and physiology has increased enormously during the past few decades as indicated by the deliberations in international conferences on extremophiles and thermophiles held every alternate year and papers published in journals such as Extremophiles. Thermophilic moulds and bacteria have been extensively studied in plant biomass bioconversion processes as sources of industrial enzymes and as gene donors. In the development of third generation biofuels such as bioethanol, thermophilic fungal and bacterial enzymes are of particular interest. The book is aimed at bringing together scattered up-to-date information on various aspects of thermophiles such as the diversity of thermophiles and viruses of thermophiles, their potential roles in pollution control and bioremediation, and composting.

Marine Turtle Postage Stamps of the World

Abscisic Acid

Physiology and Biochemistry

Bios Scientific Pub Limited The physiology and biochemistry of abscisic acid (ABA) is an area of rapidly increasing research interest. Indeed, more is now known about the molecular action of ABA than about any other plant growth regulator. This up-to-date survey of the field is therefore particularly timely. Leading experts from the USA, UK, France, Germany and Australia have contributed papers based on the following topics: quantifications of ABA; mechanisms of ABA action; ABA and plant development; biochemistry of ABA; ABA and environmental stress; ABA in gene regulation.

The Australian Official Journal of Trademarks

Contracts Awarded

Stream Corridor Restoration

Principles, Processes, and Practices

National Technical Info Svc This document is a cooperative effort among fifteen Federal agencies and partners to produce a common reference on stream corridor restoration. It responds to a growing national and international interest in restoring stream corridors.

Rehabilitation of Rivers for Fish

A Study Undertaken by the European Inland Fisheries Advisory Commission of FAO

Food & Agriculture Org. Value can be added to projects for restoring the aesthetic appeal of modified waterways at very little extra cost if the needs of the living components of the system are taken into account. This manual was prepared by the European Inland Fisheries Advisory Commission (EIFAC) to provide guidelines and techniques for the rehabilitation of rivers for fish. It is intended for the use of fisheries managers, fisheries and wildlife biologists, land and water use planners, and civil engineers working on projects involving the protection and rehabilitation of inland running waters. While the primary orientation of the manual is towards rivers of the temperate zone, the techniques described can be applied to the restoration of rivers of similar dimensions in other climatic areas.

Liquid Chromatography in Clinical Analysis

Springer Science & Business Media Liquid Chromatography in Clinical Analysis

Getting the Right Job

A Personal Guide to Developing Your Career

The Science and Applications of Acoustics

Springer Science & Business Media This textbook treats the broad range of modern acoustics from the basics of wave propagation in solids and fluids to applications such as noise control and cancellation, underwater acoustics, music and music synthesis, sonoluminescence, and medical diagnostics with ultrasound. The new edition is up-to-date and forward-looking in approach. Additional coverage of the opto-acoustics and sonoluminescence phenomena is included. New problems have been added throughout.

Noise of Polyphase Electric Motors

CRC Press Controlling the level of noise in electrical motors is critical to overall system performance. However, predicting noise of an electrical motor is more difficult and less accurate than for other characteristics such as torque-speed. Recent advances have produced powerful computational methods for noise prediction, and Noise of Polyphase

Electric Motors is the first book to collect these advances in a single source. It is also the first to include noise prediction for permanent magnet (PM) synchronous motors. Complete coverage of all aspects of electromagnetic, structural, and vibro-acoustic noise makes this a uniquely comprehensive reference. The authors begin with the basic principles of noise generation and radiation, magnetic field and radial forces, torque pulsations, acoustic calculations, as well as noise and vibration of mechanical and acoustic origin. Moving to applications, the book examines in detail stator system vibration analysis including the use of finite element method (FEM) modal analysis; FEM for radial pressure and structural modeling; boundary element methods (BEM) for acoustic radiation; statistical energy analysis (SEA); instrumentation including technologies, procedures, and standards; and both passive and active methods for control of noise and vibration. **Noise of Polyphase Electric Motors** gathers the fundamental concepts along with all of the analytical, numerical, and statistical methods into a unified reference. It supplies all of the tools necessary to improve the noise performance of electrical motors at the design stage.

Vox Super-Mini Spanish and English Dictionary, 3rd Edition

McGraw Hill Professional **The bestselling Spanish-English dictionary perfect for home, school, and work** The Vox Super-Mini Spanish and English Dictionary has helped Spanish-language learners read, write, and understand this popular language more successfully than any other portable dictionary on the market. This new edition of this bestselling Vox title has been expanded with 32 additional pages and has been revised and updated from front to back. Reset to provide maximum legibility and redesigned for a clearer and more contemporary layout, this handy A-to-Z reference contains all the essential Spanish words required for quick communication and comprehension. Inside you'll find: 15,000 headwords and more than 24,500 translations Clearer typography for improved readability Updated coverage of contemporary Spanish language and life

The Wildlife Techniques Manual

Volume 1: Research. Volume 2: Management.

Johns Hopkins University Press **This deft and thorough update ensures that The Wildlife Techniques Manual will remain an indispensable resource, one that professionals and students in wildlife biology, conservation, and management simply cannot do without.**

The Wildlife Techniques Manual

Volume 1: Research. Volume 2: Management 2-vol. set

JHU Press **Since its original publication in 1960, The Wildlife Techniques Manual has remained the cornerstone text for the professional wildlife biologist. Now fully revised and updated, this seventh edition promises to be the most comprehensive resource on wildlife biology, conservation, and management for years to come. Superbly edited by Nova J. Silvy, the thirty-seven authoritative chapters included in this work provide a full synthesis of methods used in the field and laboratory. Chapter authors, all leading wildlife professionals, explain and critique traditional and new methodologies and offer thorough discussions of a wide range of relevant topics, including:** • experimental design • wildlife health and disease • capture techniques • population estimation • telemetry • vegetation analysis • conservation genetics • wildlife damage management • urban wildlife management • habitat conservation planning **A standard text in a variety of courses, the Techniques Manual, as it is commonly called, covers every aspect of modern wildlife management and provides practical information for applying the hundreds of methods described in its pages. To effectively incorporate the explosion of new information in the wildlife profession, this latest edition is logically organized into a two-volume set: Volume 1 is devoted to research techniques and Volume 2 focuses on management methodologies. The Wildlife Techniques Manual is a resource that professionals and students in wildlife biology, conservation, and management simply cannot do without. Published in association with The Wildlife Society**

Helium-3 and Helium-4

Springer

Drug Discovery and Development, Volume 1

Drug Discovery

Wiley-Interscience **From first principles to real-world applications -- here is the first comprehensive guide to drug discovery and development** Modern drug discovery and development require the collaborative efforts of specialists in a broad array of scientific, technical, and business disciplines--from biochemistry to molecular biology, organic chemistry

to medicinal chemistry, pharmacology to marketing. Yet surprisingly, until now, there were no authoritative references offering a complete, fully integrated picture of the process. The only comprehensive guide of its kind, this groundbreaking two-volume resource provides an overview of the entire sequence of operations involved in drug discovery and development--from initial conceptualization to commercialization to clinicians and medical practitioners. Volume 1: Drug Discovery describes all the steps in the discovery process, including conceptualizing a drug, creating a library of candidates for testing, screening candidates for in vitro and in vivo activity, conducting and analyzing the results of clinical trials, and modifying a drug as necessary. Volume 2: Drug Development delves into the nitty-gritty details of optimizing the synthetic route, drug manufacturing, outsourcing, and marketing--including drug coloring and delivery methods. Featuring contributions from a world-class team of experts, Drug Discovery and Development: * Features fascinating case studies, including the discovery and development of erythromycin analogs, Tagamet, and Ultiva (remifentanyl) * Discusses the discovery of medications for bacterial infections, Parkinson's disease, psoriasis, peptic ulcers, atopic dermatitis, asthma, and cancer * Includes chapters on combinatorial chemistry, molecular biology-based drug discovery, genomics, and chemogenomics Drug Discovery and Development is an indispensable working resource for industrialchemists, biologists, biochemists, and executives who work in the pharmaceutical industry.

Report on Procurement

Tuned to Baseball

Taylor Trade Publishing No descriptive material is available for this title.

High Integrity Software

The Spark Approach to Safety and Security

Addison Wesley Publishing Company This book provides an accessible introduction to the SPARK programming language. Updated 'classic' that covers all of the new features of SPARK, including Object Oriented Programming. The only book on the market that covers this important and robust programming language. CD-ROM contains the main SPARK tools and additional manuals giving all the information needed to use SPARK in practice. Technology: The SPARK language is aimed at writing reliable software that combines simplicity and rigour within a practical framework. Because of this, many safety-critical, high integrity systems are developed using SPARK. User Level: Intermediate Audience: Software engineers, programmers, technical leaders, software managers. Engineering companies in fields such as avionics, railroads, medical instrumentation and automobiles. Academics giving MSc courses in Safety Critical Systems Engineering, System Safety Engineering, Software Engineering. Author Biography: John Barnes is a veteran of the computing industry. In 1977 he designed and implemented the RTL/2 programming language and was an original member of the ADA programming language design team. He was founder and MD of Alsys Ltd from 1985 to 1991. Currently self employed, John is the author of 'Programming in ADA' which has sold 150000 copies and been translated into 6 languages.

Textbook of Medical Physiology

Sustainable development and bioclimate

reviewed conference proceedings, 5th to 8th October

2009, Stará Lesná

Private Life of an Indian Prince