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155 - SADIE BRYAN

Now in its fifth edition, the Textbook of Diabetes has established itself as the modern, well-illustrated, international guide to diabetes. Sensibly organized and easy to navigate, with exceptional illustrations, the Textbook hosts an unrivalled blend of clinical and scientific content. Highly-experienced editors from across the globe assemble an outstanding set of international contributors who provide insight on new developments in diabetes care and information on the latest treatment modalities used around the world. The fifth edition features an array of brand new chapters, on topics including: Ischaemic Heart Disease Glucagon in Islet Regulation Microbiome and Diabetes Diabetes and Non-Alcoholic Fatty Liver Disease Diabetes and Cancer End of Life Care in Diabetes as well as a new section on Psychosocial aspects of diabetes. In addition, all existing chapters are fully revised with the very latest developments, including the most recent guidelines from the ADA, EASD, DUK and NICE. Includes free access to the Wiley Digital Edition providing search across the book, the full reference list with web links, illustrations and photographs, and post-publication updates Via the companion website, readers can access a host of additional online materials such as: 200 interactive MCQ's to allow readers to self--assess their clinical knowledge every figure from the book, available to download into presentations fully searchable chapter pdfs Once again, Textbook of Diabetes provides endocrinologists and diabetologists with a fresh, comprehensive and multi-media clinical resource to consult time and time again.
Guanidines, amidines and phosphazenes have been attracting attention in organic synthesis due to their potential functionality resulting from their extremely strong basicity.

They are also promising catalysts because of their potential for easy molecular modification, possible recyclability, and reduced or zero toxicity. Importantly, these molecules can be derived as natural products – valuable as scientists move towards “sustainable chemistry”, where reagents and catalysts are derived from biomaterial sources. Superbases for Organic Synthesis is an essential guide to these important molecules for preparative organic synthesis. Topics covered include the following aspects: an introduction to organosuperbases physicochemical properties of organic superbases amidines and guanidines in organic synthesis phosphazene: preparation, reaction and catalytic role polymer-supported organosuperbases application of organosuperbases to total synthesis related organocatalysts: proton sponges and urea derivatives amidines and guanidines in natural products and medicines Superbases for Organic Synthesis is a comprehensive, authoritative and up-to-date guide to these important reagents for organic chemists, drug discovery researchers and those interested in the chemistry of natural products.

The Dynamic Loss of Earth's Radiation Belts: From Loss in the Magnetosphere to Particle Precipitation in the Atmosphere presents a timely review of data from various explorative missions, including the Van Allen Probes, the Magnetospheric Multiscale Mission (which aims to determine magnetopause losses), the completion of four BARREL balloon campaigns, and several CubeSat missions focusing on precipitation losses. This is the first book in the area to include a focus on loss, and not just acceleration and radial transport. Bringing together two communities, the book includes contributions from experts with knowledge in both precipitation mechanisms and the effects on the atmosphere. There is a direct link between what gets lost in the magnetospheric radiation environment and the energy deposited in the layers of our atmosphere. Very recently, NASA’s Living With a Star program identified a new, targeted research topic that addresses this question, highlighting the timeliness of this precise science. The Dynamic Loss of Earth's Radiation Belts brings together scientists from the space and atmospheric science communities to examine both the causes and effects of particle loss in the magnetosphere. Examines both the causes and effects of particle loss in the magnetosphere from multiple perspectives Presents interdisciplinary content that bridges the gap, through communication and collaboration, between the magnetospheric and atmospheric communities Fills a gap in the literature by focusing on loss in the radiation belt, which is especially timely based on data from the Van Allen Probes, the Magnetospheric Multiscale Mission, and other projects Includes contributions from various experts in the field that is organized and collated by a clear-and-consistent editorial team

Presents a solid introduction to thermal analysis, methods,instrumentation, calibration, and application along with thenecessary theoretical background. Useful to chemists, physicists, materials scientists, andengineers who are new to thermal analysis techniques, and toexisting users of thermal analysis who wish expand their experienceto new techniques and applications Topics covered include Differential Scanning Calorimetry andDifferential Thermal Analysis (D-

SC/DTA), Thermogravimetry,Thermomechanical Analysis and Dilatometry, Dynamic MechanicalAnalysis, Micro-Thermal Analysis, Hot Stage Microscopy, andInstrumentation. Written by experts in the various areas of thermalanalysis Relevant and detailed experiments and examples follow eachchapter.

In the course of evolution, a great variety of root systems have learned to overcome the many physical, biochemical and biological problems brought about by soil. This development has made them a fascinating object of scientific study. This volume gives an overview of how roots have adapted to the soil environment and which roles they play in the soil ecosystem. The text describes the form and function of roots, their temporal and spatial distribution, and their turnover rate in various ecosystems. Subsequently, a physiological background is provided for basic functions, such as carbon acquisition, water and solute movement, and for their responses to three major abiotic stresses, i.e. hard soil structure, drought and flooding. The volume concludes with the interactions of roots with other organisms of the complex soil ecosystem, including symbiosis, competition, and the function of roots as a food source.

Ecotoxiclogical risk from multiple stressors covers any situation where orgisms are exposed to a combination of environmental stressors. These include physical and chemical pollutants as well as other stressors such as parasites and environmental impact (e. g. , climate change or habitat loss). The combi- tion of stressors can result in increased risk to organisms (either additive or synergistic effects) or decreased effects (protective or antagonistic effects). The multiple stressor challenge is an international, multi-disciplinary problem requiring an international, multi-disciplinary approach. The c- rent approach to multiple stressors is to examine one stressor at a time and assume additivity. Little work has been done on combinations of stressors such that potential interactions can be determined. The problem is very complex. Multiple stressors pose a whole spectrum of challenges that range from basic science to regulation, policy and goveance. The challenges raise fundamental questions about our understanding of the basic biological response to stressors, as well as the implications of those uncertainties in environmental risk assessment and management. In addition to the great breadth, there is also great depth in the research ch- lenges, largely due to the complexity of the issues. From a basic science point of view, many of the mechanisms and processes under investigation are at the cutting edge of science — involving new paradigms such as genomic ins- bility and bystander effects.

A practical approach to the investigation and treatment of adult congenital heart disease (ACHD), this fully updated Oxford Specialist Handbook is a concise and accessible overview of a complex condition. Packed with straightforward advice, management strategies and key clinical points, it equips clinicians with a sound understanding of the principles and physiology of ACHD. An ideal reference tool for cardiology trainees, general cardiologists and acute medicine physicians, this second edition of Adult Congenital Heart Disease has been fully reviewed to include new guidelines and increased illustations to

aid understanding. Brand new chapters on epidemiology, heart failure, device therapy and transition and transfer of care ensure that Adult Congenital Heart Disease remains the definitive guide to supporting clinicians throughout all aspects of the patient's care.

Mineral Processing Technology, Third Edition: An Introduction to the Practical Aspects of Ore Treatment and Mineral Recovery details the fundamentals of contemporary ore processing-techniques. The title first introduces the basics of ore-processing, and then proceeds to tackling technical topics in the subsequent chapters. The text covers methods and procedures in ore handling, industrial screening, and ore sorting. The selection also deals with ore-processing equipment, such as crushers and grinding mills. The book will be of great use to students and professionals of disciplines involved in mining industry.

This text provides a broad and current review of this field and will serve as a valuable resource for trainees, academic and community surgeons, and members of industry with an interest in LESS. Due to the novelty and complexity of these procedures, the book focuses on detailed descriptions as well as pertinent illustrations for various upper and lower tract urologic procedures. The development of novel minimally invasive and robotic technology for more comfortable performance of these demanding procedures is covered. A complete description of instrumentation, platforms, and optics developed specifically for LESS is another primary focus of this text. Finally, a description of outcomes and complications as well as comparative data defining the status of LESS in relation to other current minimally invasive techniques is offered. Atlas of Laparoscopic and Robotic Single Site Surgery will provide a detailed summary of the current status of LESS that will help guide surgical decision making, encourage investigative efforts, and stimulate industry led technology development.

Advocates the "salad bar beef production model" that is supposed to be "land and farmer friendly."

Join Professor Kenneth W. Harl for The Ottoman Empire: 36 enlightening lectures that investigate the nature of Ottoman identity, the achievements and oddities of the sultan's court, and stories of confrontation and cooperation with the West.

Computational Cardiovascular Mechanics provides a cohesive guide to creating mathematical models for the mechanics of diseased hearts to simulate the effects of current treatments for heart failure. Clearly organized in a two part structure, this volume discusses various areas of computational modeling of cardiovascular mechanics (finite element modeling of ventricular mechanics, fluid dynamics) in addition to a description an analysis of the current applications used (solid FE modeling, CFD). Edited by experts in the field, researchers involved with biomedical and mechanical engineering will find Computational Cardiovascular Mechanics a valuable reference.

Filling a gap in the literature, leading expert editors and top international authors present the field of biooxidation from an academic and industrial point of view, taking many examples from modern pharmaceutical research. Topics range from the application of different monooxygenases to applications in the pharmaceutical industry, making this

volume of high interest not only for those working in biotechnology but also for organic synthetic chemists, among others.
The tetracyclines have an illustrious history as therapeutic agents which dates back over half a century. Initially discovered as an antibiotic in 1947, the four ringed molecule has captured the fancy of chemists and biologists over the ensuing decades. Of further interest, as described in the chapter by George Armelagos, tetracyclines were already part of earlier cultures, 1500-1700 years ago, as revealed in traces of drug found in Sudanese Nubian mummies. The diversity of chapters which this book presents to the reader should illus trate the many disciplines which have examined and seen benefits from these fascinating natural molecules. From antibacterial to anti-inflammatory to anti autoimmunity to gene regulation, tetracyclines have been modified and redesigned for various novel properties. Some have called this molecule a biol ogist's dream because of its versatility, but others have seen it as a chemist's nightmare because of the synthetic chemistry challenges and "chameleon-like" properties (see the chapter by S. Schneider).
Many laser applications depend on the ability of a particular laser to be frequency tunable. Among the many different types of frequency tunable lasers are: dye lasers, excimer lasers, and semiconductor lasers. Thisbook gives active researchers and engineers the practical information they need to choose an appropriate tunable laser for their particular applications. Presents a unified and integrated perspective on tunable lasers Includes sources spanning the electromagnetic spectrum from the UV to the FIR Contains 182 figures and 68 tables Provides coverage of optical parametric oscillators and tunable gas, liquid, solid state, and semiconductor lasers
In August 1968, naturalist-explorer Peter Matthiessen returned from Africa to his home in Sagaponack, Long Island, to find three Zen masters in his driveway—guests of his wife, a new student of Zen. Thirteen years later, Matthiessen was ordained a Buddhist monk. Written in the same format as his best-selling The Snow Leopard, Nine-Headed Dragon River reveals Matthiessen's most daring adventure of all: the quest for his spiritual roots.

This project was sponsored by Defense Advance Research Projects Agency (DoD) ARPA Order No. 3803, monitored by Naval Electronic System Command under Contractor No. N00034-R-0251. It was also sponsored by Defense Advance Research Projects Agency (DoD) ARPA Order No. 4871, monitored by Naval Electronic Systems Command under Contract No. N00039-84-C-0089.
Learn the facts behind the pharmacology and pharmacokinetics of controversial cannabis therapeutics The Handbook of Cannabis Therapeutics: From Bench to Bedside sets aside the condemnation and hysteria of society’s view of cannabis to concentrate on the medically sound aspects of cannabis therapeutics. The world’s foremost experts provide a reasoned, thoroughly researched overview of the controversial subject of cannabis, from its history as a medicine through its latest therapeutic uses. The latest studies on the botany, history, biochemistry, pharmacology, toxicology, clinical use for various illnesses such as AIDS, epilepsy, and multiple sclerosis, and side

effects of marijuana are all examined and discussed in depth. This comprehensive resource is a compendium of articles from the Journal of Cannabis Therapeutics—with additional contemporary commentary. It presents startling research that explores and supports the medicinal value of cannabis use and its derivatives as a valid therapeutic resource for pain and inflammation, for several illnesses less responsive to other therapies, and even for certain veterinary uses. Cannabinoids such as nabilone, THC, levonantradol, ajulemic acid, dexanabinal, and others are extensively described, with a review of new indications for cannabinoid pharmaceuticals. The book is carefully referenced to encourage your examination of previous studies and provides tables and figures to enhance understanding of information. The Handbook of Cannabis Therapeutics discusses: the uses of cannabis in Arabic, Greek, Roman, and early English medicines absorption rates pharmacokinetics pharmacodynamics separate extracts versus the use of cannabis in its entirety the therapeutic value of the endocannabinoid system cannabinoids and newborn feeding a comparison of smoking versus oral preparations clinical research data on eating cannabis therapeutic uses as appetite stimulant treatments in obstetrics and gynecology medicinal treatments used in Jamaica the use of cannabis in the treatment of multiple sclerosis the benefits versus the adverse side effects of cannabis use The Handbook of Cannabis Therapeutics is a reference work certain to become crucial to physicians, psychologists, researchers, biochemists, graduate students, and interested members of the public.

This book is a printed edition of the Special Issue "Nutrition and Diet Factors in Type 2 Diabetes" that was published in Nutrients

This title examines the history of the Washington Redskins, telling the story of the franchise and its top players, greatest games, and most thrilling moments. This book includes informative sidebars, high-energy photos, a timeline, a team file, and a glossary. SportsZone is an imprint of Abdo Publishing Company.

This book is a printed edition of the Special Issue "Extracellular Matrix in Development and Disease" that was published in IJMS

A complete, up-to-date resource of information on more than 200 dyes and stains Handbook of Biological Dyes and Stains is the most comprehensive volume available on the subject, covering all the available dyes and stains known to date in the literature for use in biology and medicine. Top dye expert Dr. Ram Sabnis organizes the compounds alphabetically by the most commonly used chemical name. He presents an easy--to-use reference complete with novel ideas for breakthrough research in medical, biological, chemical, and related fields. This is the first book to give the CAS registry number, chemical structure, Chemical Abstracts index name, all other chemical names, Merck Index number, chemical/dye class, molecular formula, molecular weight, physical form, solubility, melting point, boiling point, pH range, color change at pH, pKa, absorption, and emission maxima of dyes and stains, as well as to provide access to synthesis procedures (lab scale and industrial scale) of dyes and stains. This user-friendly handbook also features references on safety, toxicity, and adverse effects of

dyes and stains on humans, animals, and the environment, including: acute/chronic toxicity aquatic toxicity carcinogenicity cytotoxicity ecotoxicity genotoxicity hepatotoxicity marine toxicity mutagenicity nephrotoxicity neurotoxicity oral toxicity phototoxicity phytotoxicity The use of biological dyes and stains has extremely high potential in today's business environment. This makes Handbook of Biological Dyes and Stains a convenient, must-have reference. Its staining, biological, and industrial applications make it a vital resource for industrial and academic researchers; the book also serves as a valuable desktop reference for medical professionals, biologists, chemists, chemical/optical engineers, physicists, materials scientists, intellectual property professionals, students, and professors.

Microbial Ecology of Activated Sludge, written for both microbiologists and engineers, critically reviews our current understanding of the microbiology of activated sludge, the most commonly used process for treating both domestic and industrial wastes. The contributors are all internationally recognized as leading research workers in activated sludge microbiology, and all have made valuable contributions to our present understanding of the process. The book pays particular attention to how the application of molecular methods has changed our perceptions of the identity of the filamentous bacteria causing the operational disorders of bulking and foaming, and the bacteria responsible for nitrification and denitrification and phosphorus accumulation in nutrient removal processes. Special attention is given to how it is now becoming possible to relate the composition of the community of microbes present in activated sludge, and the in situ function of individual populations there, and how such information might be used to manage and control these systems better. Detailed descriptions of some of these molecular methods are provided to allow newcomers to this field of study an opportunity to apply them in their research. Comprehensive descriptions of organisms of interest and importance are also given, together with high quality photos of activated sludge microbes. Activated sludge processes have been used globally for nearly 100 years, and yet we still know very little of how they work. In the past 15 years the advent of molecular culture independent methods of study have provided tools enabling microbiologists to understand which organisms are present in activated sludge, and critically, what they might be doing there. Microbial Ecology of Activated Sludge will be the first book available to deal comprehensively with the very exciting new information from applying these methods, and their impact on how we now view microbiologically mediated processes taking place there. As such it will be essential reading for microbial ecologists, environmental biotechnologists and engineers involved in designing and managing these plants. It will also be suitable for postgraduate students working in this field.

An internationally acclaimed reference work recognized as one of the most authoritative and comprehensive sources of information on excipients used in pharmaceutical formulation with this new edition providing 340 excipient monographs. Incorporates information on the uses, and chemical and physical properties of excipients systematically collated from a variety of

international sources including: pharmacopeias, patents, primary and secondary literature, websites, and manufacturers' data; extensive data provided on the applications, licensing, and safety of excipients; comprehensively cross-referenced and indexed, with many additional excipients described as related substances and an international supplier's directory and detailed information on trade names and specific grades or types of excipients commercially available.

Experimental surgery is an important link for the development in clinical surgery, research and teaching. Experimental surgery was part of the most important surgical discoveries in the past century. Since 1901 nine Nobel Prizes have been awarded to the pioneers had remarkable achievements in the basic or practical surgery. In recent 20 years, experimental surgery has achieved new advances, like laparoscopic and robotic surgery, tissue engineering, and gene therapy which are widely applied in clinic surgery. The present book covers wide experimental surgery in preclinical research models subdivided in two volumes. Volume I introduces surgical basic notions, techniques, and different surgical models involved in basic experimental surgery and review the biomechanical models, ischemia/reperfusion injury models, repair and regeneration models, and organ and tissue transplantation models, respectively. Volume II introduces several specific experimental models such as laparoscopic and bariatric experimental surgical models. The second volume also introduces graft-versus-host disease, and other experimental models. Review the advances and development of recent techniques such as tissue engineering, organ preservation, wound healing and scarring, gene therapy and robotic surgery. The book documents the enormous volume of knowledge we have acquired in the field of experimental surgery. In this book, we have invited experts from the United States, Canada, France, Germany, China, Japan, Korea, UK, Sweden, Netherland, Hungary and Turkey to contribute 36 chapters in the fields of their expertise. These two volumes are the compilation of basic experimental surgery and updated advances of new development in this field that will be invaluable to surgeons, residents, graduate students, surgical researchers, physicians, immunologists, veterinarians and nurses in surgery.

Modelling and simulation in acoustics is currently gaining importance. In fact, with the development and improvement of innovative computational techniques and with the growing need for predictive models, an impressive boost has been observed in several research and application areas, such as noise control, indoor acoustics, and industrial applications. This led us to the proposal of a special issue about “Modelling, Simulation and Data Analysis in Acoustical Problems”, as we believe in the importance of these topics in modern acoustics’ studies. In total, 81 papers were submitted and 33 of them were published, with an acceptance rate of 37.5%. According to the number of papers submitted, it can be affirmed that this is a trending topic in the scientific and academic community and this special issue will try to provide a future reference for the research that will be developed in coming years.

The papers presented here, written by experts from all parts of the

globe, describe efforts that represent a revolutionary moment in the treatment of schizophrenia disorders as, with caution, we begin to shift the standard of treatment toward early intervention and prevention. Contributions are organised according to the early course of psychosis. The book is of critical importance to anyone interested in psychotic disorders and the revolutionary impact that the field of early detection and intervention is having on traditional conceptualisations of psychotic illness.

Biopolymers from Renewable Resources is a compilation of information on the diverse and useful polymers derived from agricultural, animal, and microbial sources. The volume provides insight into the diversity of polymers obtained directly from, or derived from, renewable resources. The beneficial aspects of utilizing polymers from renewable resources, when considering synthesis, pro cessing, disposal, biodegradability, and overall material life--cycle issues, suggests that this will continue to be an important and growing area of interest. The individual chapters provide information on synthesis, processing and properties for a variety of polyamides, polysaccharides, polyesters and polyphenols. The reader will have a single volume that provides a resource from which to gain initial insights into this diverse field and from which key references and contacts can be drawn. Aspects of biology, biotechnology, polymer synthesis, polymer processing and engineering, mechanical properties and biophysics are addressed to varying degrees for the specific biopolymers. The volume can be used as a reference book or as a teaching text. At the more practical level, the range of important materials derived from renewable resources is both extensive and impressive. Gels, additives, fibers, coatings and films are generated from a variety of the biopolymers reviewed in this volume. These polymers are used in commodity materials in our everyday lives, as well as in specialty products.

Wills' Mineral Processing Technology provides practising engineers and students of mineral processing, metallurgy and mining with a review of all of the common ore-processing techniques utilized in modern processing installations. Now in its Seventh Edition, this renowned book is a standard reference for the mineral processing industry. Chapters deal with each of the major processing techniques, and coverage includes the latest technical developments in the processing of increasingly complex refractory ores, new equipment and process routes. This new edition has been prepared by the prestigious J K Minerals Research Centre of Australia, which contributes its world-class expertise and ensures that this will continue to be the book of choice for professionals and students in this field. This latest edition highlights the developments and the challenges facing the mineral processor, particularly with regard to the environmental problems posed in improving the efficiency of the existing processes and also in dealing with the waste created. The work is fully indexed and referenced. · The classic mineral processing text, revised and updated by a prestigious new team · Provides a clear exposition of the principles and practice of mineral processing, with examples taken from practice · Covers the latest technological developments and highlights the challenges facing the min-

eral processor · New sections on environmental problems, improving the efficiency of existing processes and dealing with waste.

Incorporating dramatic recent advances, "Methods in Modern Biophysics" presents a fresh and timely introduction to modern biophysical methods. This innovative text surveys and explains the ten key biophysical methods, including those related to biophysical nanotechnology, scanning probe microscopy, X-ray crystallography, ion mobility spectrometry, mass spectrometry, and proteomics. Containing much information previously unavailable in tutorial form, "Methods in Modern Biophysics" employs worked examples and more than 260 illustrations to fully detail the techniques and their underlying mechanisms. The book was written for advanced undergraduate and graduate students, postdocs, researchers, lecturers and professors in biophysics, biochemistry, general biology and related fields.

The sections in this book are devoted to new approaches and usages of stainless steels, the influence of the environments on the behavior of certain classes of steels, new structural concepts to understand some fatigue processes, new insight on strengthening mechanisms, and toughness in microalloyed steels. The kinetics during tempering in low-alloy steels is also discussed through a new set-up that uses a modified Avrami formalism.

Drug Resistance in Colorectal Cancer: Molecular Mechanisms and Therapeutic Strategies, Volume Eight, summarizes the molecular mechanisms of drug resistance in colorectal cancer, along with the most up-to-date therapeutic strategies available. The book discusses reasons why colorectal tumors become refractory during the progression of the disease, but also explains how drug resistance occurs during chemotherapy. In addition, users will find the current therapeutic strategies used by clinicians in their practice in treating colorectal cancer. The combination of conventional anticancer drugs with chemotherapy-sensitizing agents plays a pivotal role in improving the outcome of colorectal cancer patients, in particular those with drug-resistant cancer cells. From a clinical point-of-view, the content of this book provides clinicians with updated therapeutic strategies for a better choice of drugs for drug-resistant colorectal cancer patients. It will be a valuable source for cancer researchers, oncologists and several members of biomedical field who are dedicated to better treat patients with colorectal cancer. Presents a systemic summary of molecular mechanisms for a quick and in-depth understanding Updates current trends in the field with pioneering information on drug resistance Encompasses both basic and clinical approaches for a better understanding of unsolved problems from a holistic point-of-view

This book is a printed edition of the Special Issue "Nutrigenetics" that was published in Nutrients

As aging trends in the United States and Europe in particular are strongly suggestive of increasingly older society, it would be prudent for health care providers to better prepare for such changes. By including physiology, disease, nutrition, pharmacology, pathology, radiology and other relevant associated topics, Geriatric Gastroenterology fills the void in the literature for a volume devoted specifically to gastrointestinal illness

in the elderly. This unique volume includes provision of training for current and future generations of physicians to deal with the health problems of older adults. It will also serve as a comprehensive guide to practicing physicians for ease of reference. Relevant to the geriatric age group, the volume covers epidemiology, physiology of aging, gastrointestinal physiology, pharmacology, radiology, pathology, motility disorders, luminal disorders, hepato-biliary disease, systemic manifestations, neoplastic disorders, gastrointestinal bleeding, cancer and medication related interactions and adverse events, all extremely common in older adults; these are often hard to evaluate and judge, especially considering the complex aging physiology. All have become important components of modern medicine. Special emphasis is be given to nutrition and related disorders. Capsule endoscopy and its utility in the geriatric population is also covered. Presented in simple, easy to read style, the volume includes numerous tables, figures and key points enabling ease of understanding. Chapters on imaging and pathology are profusely illustrated. All chapters are written by specialists and include up to date scientific information. Geriatric Gastroenterology is of great utility to residents in internal medicine, fellows in gastroenterology and geriatric medicine as well as gastroenterologists, geriatricians and practicing physicians including primary care physicians caring for older adults.

The relatively new technique of solid phase microextraction (SPME) is an important tool to prepare samples both in the lab and on-site. SPME is a "green" technology because it eliminates organic solvents from analytical laboratory and can be used in environmental, food and fragrance, and forensic and drug analysis. This handbook offers a thorough background of the theory and practical implementation of SPME. SPME protocols are presented outlining each stage of the method and providing useful tips and potential pitfalls. In addition, devices and fiber coatings, automated SPME systems, SPME method development, and In Vivo applications are discussed. This handbook is essential for its discussion of the latest SPME developments as well as its in depth information on the history, theory, and practical application of the method. Practical application of Solid Phase Microextraction methods including detailed steps Provides history of extraction methods to better understand the process Suitable for all levels, from beginning student to experienced practitioner

Semiconductor sensors patterned at the micron scale combined with custom-designed integrated circuits have revolutionized semiconductor radiation detector systems. Designs covering many square meters with millions of signal channels are now commonplace in high-energy physics and the technology is finding its way into many other fields, ranging from astrophysics to experiments at synchrotron light sources and medical imaging. This book is the first to present a comprehensive discussion of the many facets of highly integrated semiconductor detector systems, covering sensors, signal processing, transistors and circuits, low-noise electronics, and radiation effects. The diversity of design approaches is illustrated in a chapter describing systems in high-energy physics, astronomy, and astrophysics. Finally a chapter "Why things don't work" discusses common

pitfalls. Profusely illustrated, this book provides a unique reference in a key area of modern science.

AAP Committee on Infectious Diseases; Editor: Larry K. Pickering, MD, FAAP; Associate editors: Carol J. Baker, MD, FAAP; David W. Kimberlin, MD, FAAP; Sarah S. Long, MD, FAAP The revised and updated 2009 Red Book includes the latest findings and clinical guidelines on the manifestations, etiology, epidemiology, diagnosis, and treatment of more than 200 childhood conditions. "The authoritative guide to the latest pediatric infectious disease information" Developed by the AAP Committee on Infectious Diseases in conjunction with the CDC, the FDA, and other leading institutions with contributions from hundreds of physicians nationwide, the newly revised and updated 2009 "Red Book" continues the tradition of excellence with the latest findings and clinical recommendations on the manifestations, etiology, epidemiology, diagnosis, and treatment of more than 200 childhood conditions. 2009 Red Book Content HighlightsAll chapters and sections updatedKey developments in combination vaccines2009 AAP standards for child and adolescent immunization practicesThe latest on common misconceptions about immunizationsRevised section on vaccine contraindications and precautionsThe latest on pregnancy and the human papillomavirus (HPV) vaccineUpdated recommendations for routine screening of pregnant women for HIV The latest on sexually transmitted infections (STIs) in adolescents and children and recommendations for use of HPV vaccineUpdated coverage of Adenovirus, Anthrax, Arboviruses, Candidiasis, "Clostridium difficile," Enteroviruses, Epstein-Barr Virus InfectionsNew chapter on "Fusobacterium" infectionsUpdated information on Hepatitis A and Hepatitis BSignificantly revised chapters on Herpes Simplex and Human Immunodeficiency Virus InfectionUpdated chapter on Group A Streptococcal InfectionsNew AHA guidelines for the prevention of infective endocarditisAnd much more!

In the view of most experts pharmacology is on drugs, targets, and actions. In the context the drug as a rule is seen as an active pharmaceutical ingredient and not as a complex mixture of chemical entities of a well defined structure. Today, we are becoming more and more aware of the fact that delivery of the active compound to the target site is a key. The present volume gives a topical overview on various modern approaches to drug targeting covering today’s options for specific carrier systems allowing successful drug treatment at various sites of the body difficult to address and allowing to increase the benefit-risk-ratio to the optimum possible.