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Today we find the applications of nanotechnology in all spheres of life. Nanotechnology: Therapeutic, Nutraceutical and Cosmetic Advances discusses recent advances in the field, particularly with therapeutics, nutraceuticals and cosmetic sciences. Therapeutics is an area which has perhaps benefitted the most, although nanoscience and technology have quietly entered the realms of food science and are playing pivotal roles in the efficient utilization of nutraceuticals. Finally, even before therapeutics came cosmetics and companies started marketing unique products embedding the beneficial and advanced properties enabled by

the use of nanostructures. This book highlights trends and applications of this wonderful new technology. The shift towards being as environmentally-friendly as possible has resulted in the need for this important reference on the topic of designing safer chemicals. Edited by the leading international experts in the field, this volume covers such topics as toxicity, reducing hazards and biochemical pesticides. An essential resource for anyone wishing to gain an understanding of the world of green chemistry, as well as for chemists, environmental agencies and chemical engineers. The enormous potential of siRNA as a therapeutic has led to an explosion of interest from the scientific community. There has been intense interest from Big Pharma to capitalise on this new technology but the fact remains that delivery is a key determinant in realizing the full clinical potential of RNA interference. There is an urgent need for better delivery methods to take this technology forward. This book addresses the role of different RNAi molecules in cellular processes as rational for diagnostic and therapeutic approaches. This book will cover RNAi therapeutic design to optimize siRNA potency and reduce off-target effects and current delivery technologies to overcome both intracellular and extracellular barriers. The reader will gain an insight into RNA interference from the cellular mechanisms to screening to siRNA design right through to diagnostic and therapeutic applications. Reprint of the original, first published in 1869. Environmental Sustainability and Industries identifies and discusses critical areas related to environmentally conscious industrial development of products and services that may support more sustainable and equitable societies. This book addresses pollution prevention by referring to the use of processes, practices, and materials that reduce or eliminate the generation of pollutants at the source of production, more efficient use of raw materials, energy, water or other resources, or by conserving natural resources by maintaining clean production. It explains industrial energy efficiency as the most cost-effective use of energy in manufacturing processes, reducing its wastage as well as the total consumption of primary energy resources. Life cycle assessment is used as an analytical method to quantify environmental impacts, focusing

on environmental considerations concerning process design and optimization, and including various sustainable manufacturing parameters in the context of industrial processes and proposes a classification of identified parameters to evaluate and optimize the manufacturing performances. The book also dives into industrial ecology, investigating how, where, and why environmental improvements can be made to develop a sustainable industry, meeting the needs of current generations without sacrificing the needs of the future ones. This book analyzes a company's environmental, social, and economic performance and their interrelationships, emphasizing the importance of identifying and understanding causal relationships between alternative approaches to action and their impact on financial and nonfinancial performance. It concludes with a view on the future of sustainable industrial systems stressing change as a joint effort of scientists, governments, people in business, and academicians. Offers compiled information on the environmental sustainability for industry Provides principles and advanced trends and approaches for environmental sustainability for the industrial sector Discusses established and emerging technologies and processes for sustainable approaches for industry Presents the development in the use of the assessment models as a tool to support the research and applications of different sustainable technologies and processes Advances in Silicic Acid Research and Application: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about ZZZAdditional Research in a concise format. The editors have built Advances in Silicic Acid Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about ZZZAdditional Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Silicic Acid Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available

exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>. Cardiovascular Molecular Imaging is based on a groundbreaking NIH symposium sponsored by the American Society of Nuclear Cardiology. The first all-inclusive guide to the targeted molecular imaging of the cardiovascular system, it includes color illustrations throughout and is packaged with a user-friendly CD-ROM with supplemental material. This reference Sustainable Nanotechnology: A robust examination of the use of nanotechnology in the manufacture of sustainable products In Sustainable Nanotechnology: Strategies, Products, and Applications, a team of distinguished researchers delivers a comprehensive and up-to-date exploration of nanotechnology applications in environmental, pharmaceutical, and engineering products in the context of global sustainability. The book offers balanced coverage of the benefits and risks of nanotechnology. Divided into three parts, the editors have included contributions from leading scholars discussing sustainability, toxicological impacts, and nanomaterial-based adsorbents. This edited volume helps readers understand how nanotechnology and nanomaterials apply in different global sustainability challenges. It also discusses models for understanding the lifecycle and risk assessments of manufactured nanomaterials. Case studies are included to explore such topics as design, remediation, and technology assessment. The book also provides: Thorough introductions to nanotechnology-based research priorities for global sustainability and the challenges and opportunities of modern, sustainable nanotechnology Comprehensive explorations of improving the sustainability of bio-based products with nanotechnology and the improvement of the environmental sustainability of biopolymers using nanotechnology Practical discussions of nanotechnology-based polymers for drug delivery applications In-depth examinations of green nanotechnology-driven drug delivery systems Perfect for nanotechnology-focused professionals, sustainability experts, biomedical experts, and pharmaceutical industry practitioners, Sustainable Nanotechnology: Strategies, Products, and Applications will also earn a place in the libraries of neuroscientists, bioengineering professionals,

and those involved in neuroprosthetic engineering. Reference to the design of new insecticides nontoxic to the environment and the public emphasizing optimal food production with greater safety. Some 30 international experts examine topics including new types of active molecules among natural products and animal toxins; insect metabolic and organ sy A review of the nation's new coverages serves as a ready reminder that drinking water safety is more than regional or local concern. In recent times, the print media alone has drawn attention to barium, bacteria, heavy metals, and increasingly organic contaminants, in public water supplies located in Florida, Rhode Island, Texas, Oregon, Illinois, Minnesota, North Carolina, Michigan, and California, to name a few. In an effort to address one of the major issues confronting the future of the nation's drinking water supplies, chemical contamination, the Drinking Water Research Foundation and the American Chemical Society presented the symposium, "Safe Drinking Water: the Impact of Chemicals on a Limited Resource." To add balance to the total presentation, two papers were included that were not part of the symposium. Many questions as to the public significance of hundreds of organic chemicals known to be present in the national drinking water supply are waiting to be answered. In some areas of the country, acid rain-induced alterations of the natural leaching process represent an unexplored potential source of toxic pollutants. Finding workable ways to clean up the water supply will be an ongoing task. Addressing these questions, as well as investigating how other countries are responding to these problems, the alternate sources available, such as bottled water, and point of use devices, the presenters in this symposium have attempted to explain the problems, situation, and alternatives. As progress is made in one area, setbacks will occur in another. As we eliminate problems through chemical technology, we often create others, such as contamination of our waters. While all the situations, problems, and alternatives are not discussed in these proceedings, it is hoped that some attention will be brought to the public, government, and private sectors so that future work will be done to assure the nation of safe drinking water resources. D. B. LONGMORE The concept of the meeting

on which this book is based is unique. There has never before been a multi-disciplinary meeting based entirely on the concept of making a major branch of surgery safer. Hopefully, this meeting will be archetypal and will set a precedent for similar attempts in other disciplines as well as future efforts to make cardiac surgery safer. Cardiac surgery is still a rapidly growing discipline even after a quarter of a century of experience. Like any new area of science, or medicine, initially there is an exponential growth of work, publications, meetings, options of available equipment and all the ancillary and peripheral disciplines associated with it. The ideas of the handful of original surgical pioneers, some of whom have contributed to this book, formed the basis of a still rapidly growing young branch of surgery with a whole new medical discipline of total extracorporeal circulation involving biochemical and haemodynamic control of a patient. This book is the first to provide a comprehensive review of recent progress and challenges in the risk assessment of nanomaterials by empirical and computational techniques. Focusing on the importance of functional foods and their secondary metabolites for human health, this volume presents new insights with scientific evidence on the use of functional foods in the treatment of certain diseases. The plants covered and their bioactive compounds are easily accessible and are believed to be effective with fewer side effects in comparison with modern drugs in the treatment of different diseases. The plants contain chemical compounds that can modify and modulate biological systems, eliciting therapeutic effects. Some plants and derived products mentioned include black carrot, olive oil, citrus peel, grapes, candy leaf, cereals and grains, and green and black tea. The volume is divided into four sections that cover these topics: Functional foods for human health: the available sources, biochemistry, structural composition, and different biological activities, especially antioxidant activity. Pharmacological aspects of fruits and vegetables: the extraction of bioactive molecules, phytochemistry, and biological activities of a selection of plants. Pharmacological aspects of natural products: bioactive compounds, structural attributes, bioactivity of anthocyanin, piceatannol, and a review of the ethnobotany and medicinal properties of

green and black tea. Pharmacological aspects of cereals and grains: the health benefits of flaxseed, wheatgrass juice, and use and therapeutic potential as supplements for disease management. A new edition of this respected Australian gastroenterology textbook Completely updated, this comprehensive medical resource offers a practical, problem-based approach to the subject of clinical gastroenterology. Containing specialist content from Australian and international contributors, Clinical Gastroenterology, 3rd Edition focuses on both common and uncommon gastroenterological problems as they present in clinical practice. Building on the previous two editions, Clinical Gastroenterology features decision trees to assist clinicians in assessing patients and the treating digestive disorders. This latest edition also includes clear medical illustrations suitable for patient education, along with summary tables highlighting key points to guide General Practitioners, gastroenterology specialist trainees and medical students New to this edition • each chapter commences with a case study and contains key point summaries at the end • new chapters on inflammatory bowel disease; obesity and anti-obesity surgery; principles of anaesthesia for endoscopy and preparing patients for endoscopy; complications of endoscopy; liver transplant and end-stage liver disease • expanded sections on pancreatic masses and cysts, and radiological evaluation including the place of cross-sectional imaging • gastroenterological case studies and key point summaries in each chapter • new chapters on gastroenterological and hepatological medical conditions, including inflammatory bowel disease, obesity and anti-obesity surgery, principles of anaesthesia for endoscopy and preparing patients for endoscopy, complications of endoscopy, liver transplant and end-stage liver disease • an expanded section on pancreatic cysts and masses • an expanded section on radiological evaluation including the place of cross-sectional imaging Following the successful and proven concept used in "Bioactive Heterocyclic Compound Classes" by the same editors, this book is the first to present approved pharmaceutical and agrochemical compounds classified by their carboxylic acid functionality in one handy volume. Each of the around 40 chapters describes one or two typical syntheses of a specific

compound class and provides concise information on the history of development, mode of action, biological activity and field of application, as well as structure-activity relationships. In addition, similarities and differences between pharmaceuticals and agrochemicals are discussed in the introduction. Written by a team of experts in the field, this is a useful reference for researchers in academia and chemical or pharmaceutical companies working in the field of total synthesis and natural product chemistry, drug development, and crop protection research. This authoritative volume explores the fundamental concepts and numerous applications of targeted delivery of drugs to the body. This compilation has been divided into eight sections comprised of the basic principles of drug targeting, disease and organ/organelle-based targeting, passive and active targeting strategies, and various advanced drug delivery tools such as functionalized lipidic, polymeric and inorganic nanocarriers. Together, the twenty-three chapters cover a wide range of topics in the field, including tumor and hepatic targeting, polymer-drug conjugates, nanoemulsion, physical and biophysical characteristics of nanoparticles, and in vivo imaging techniques, among others. The book also examines advanced characterization techniques, regulatory hurdles and toxicity-related issues that are key features for successful commercialization of targeted drug delivery system products. Targeted Drug Delivery is a comprehensive reference guide for drug delivery researchers, both beginners and those already working in the field. Considering the ever-increasing global population and finite arable land, technology and sustainable agricultural practices are required to improve crop yield. This book examines the interaction between plants and microbes and considers the use of advanced techniques such as genetic engineering, revolutionary gene editing technologies, and their applications to understand how plants and microbes help or harm each other at the molecular level. Understanding plant-microbe interactions and related gene editing technologies will provide new possibilities for sustainable agriculture. The book will be extremely useful for researchers working in the fields of plant science, molecular plant biology, plant-microbe interactions, plant engineering technology, agricultural microbiology,

and related fields. It will be useful for upper-level students and instructors specifically in the field of biotechnology, microbiology, biochemistry, and agricultural science. Features: Examines the most advanced approaches for genetic engineering of agriculture (CRISPR, TALAN, ZFN, etc.). Discusses the microbiological control of various plant diseases. Explores future perspectives for research in microbiological plant science. Plant-Microbial Interactions and Smart Agricultural Biotechnology will serve as a useful source of cutting-edge information for researchers and innovative professionals, as well as upper-level undergraduate and graduate students taking related agriculture and environmental science courses. Explores the characteristics of historical Native American family life and examines how members of each family would handle matters of community, religion, conflict, and diplomacy. The present book provides recent developments in various in vivo imaging and sensing techniques such as photo acoustics (PA) imaging and microscopy, ultrasound-PA combined modalities, optical coherence tomography (OCT) and micro OCT, Raman and surface enhanced Raman scattering (SERS), Fluorescence lifetime imaging (FLI) techniques and nanoparticle enabled endoscopy etc. There is also a contributing chapter from leading medical instrumentation company on their view of optical imaging techniques in clinical laparoscopic surgery. The UN proclaimed 2015 as the International Year of Light and Light-based Technologies, emphasizing achievements in the optical sciences and their importance to human beings. In this context, this book focusses on the recent advances in biophotonics techniques primarily focused towards translational medicine contributed by thought leaders who have made cutting edge developments in various photonics techniques. Principles and Practices for the Safe Processing of Foods presents information on the design, construction, and sanitary maintenance of food processing plants. This book also provides guidelines for establishing and implementing the Hazard Analysis Critical Control Points (HACCP) System and for training personnel in hygienic practices. This text is divided into 13 chapters and begins with the assessment of corporate policies concerning the controlled production of clean, wholesome foods

in a sanitary manner. The next chapters deal with some of the requirements for safe food processing, including the establishment and implementation of HACCP rules, building status, sanitation, and personnel. A chapter briefly covers the structure of some microorganisms that affect safe food, such as viruses, bacteria, and fungi. This topic is followed by discussions of the biological factors underlying food safety, preservation, and stability; the principles and application of microbiological control methods; pathogenicity and pathogen profiles; and enzymes and their importance in food spoilage. The last chapters examine the aspects of microbiological safety in food preservation technologies and the criteria for ingredients and finished products. This book will prove useful to food manufacturers, policy makers, and public health workers. Robotic urological surgery is one of the most significant urological developments in recent years. It allows for greater precision than laparoscopic methods while retaining quicker recovery time and reduced morbidity over classical open surgical techniques. For children, where the room for error is already reduced because of smaller anatomy, it takes on even more importance for urologists. As a result, robotic surgery is rightly considered one of the

most exciting contemporary developments in pediatric urology. Pediatric Robotic and Reconstructive Urology: A Comprehensive Guide provides specialist and trainees with an innovative text and video guide to this dynamic area, in order to aid mastery of robotic approaches and improve the care of pediatric patients. Full-color throughout and including over 130 color images, this comprehensive guide covers key areas including: Training, instrumentation and physiology of robotic urologic surgery Surgical planning and techniques involved Adult reconstructive principles applicable to pediatrics Management of complications, outcomes and future perspectives for pediatric urologic surgery Also included are 30 high-quality surgical videos illustrating robotic surgery in action, accessed via a companion website, thus providing the perfect visual tool for the user. With chapters authored by the leading names in the field, and expertly edited by Mohan Gundeti, this ground-breaking book is essential reading for all pediatric urologists, pediatric surgeons and general urologists, whether experienced or in training. Of related interest Smith's Textbook of Endourology, 3E Smith, ISBN 9781444335545 Pediatric Urology: Surgical Complications and Management Wilcox, ISBN 9781405162685