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KEELY HODGES

Countering the Problem of Falsified and Substandard Drugs Nordic Council of Ministers
Hayes' Principles and Methods of Toxicology has long been established as a reliable and informative reference for the concepts, methodologies, and assessments integral to toxicology. The new edition contains updated and new chapters with the addition of new authors while maintaining the same high standards that have made this book a benchmark resource in the field. Key Features: The comprehensive yet concise coverage of various aspects of fundamental and applied toxicology makes this book a valuable resource for educators, students, and professionals. Questions provided at the end of each chapter allow readers to test their knowledge and understanding of the material covered. All chapters have been updated and over 60 new authors have been added to reflect the dynamic nature of toxicological sciences New topics in this edition include Safety Assessment of Cosmetics and Personal Care Products, The Importance of the Dose/Rate Response, Novel Approaches and Alternative Models, Epigenetic Toxicology, and an Expanded Glossary. The volume is divided into 4 major sections, addressing fundamental principles of toxicology (Section I. "Principles of Toxicology"), major classes of established chemical hazards (Section II. "Agents"), current methods used for the assessment of various endpoints indicative of chemical toxicity (Section III. "Methods"), as well as toxicology of specific target systems and organs (Section IV. "Organ- and System-Specific Toxicology"). This volume will be a valuable tool for the audience that wishes to broaden their understanding of hazards and mechanisms of toxicity and to stay on top of the emerging methods and concepts of the rapidly advancing field of toxicology and risk assessment.
Chemicals as Intentional and Accidental Global Environmental Threats SAGE
This Tema Nord report presents a study based on open information and custom market research to review the most common perfluorinated substances (PFC) with less focus on PFOS and PFOA. The study includes three major parts:1) Identification of relevant per-and polyfluorinated substances and their use in various industrial sectors in the Nordic market by interviews with major players and database information; 2) Emissions to and occurence in the Nordic environment of the substances described in 1); 3) A summary of knowledge of the toxic effects on humans and the environment of substances prioritized in 2); There is a lack of physical chemical data, analytical reference substances, human and environmental occurrence and toxicology data, as well as market information regarding PFCs other than PFOA and PFOS and the current legislation cannot enforce disclosure of specific PFC substance information.
Mutagenic Impurities CRC Press
Provides the most current information and research available for performing risk assessments on exposed individuals and populations, giving guidance to public health authorities, primary care physicians, and industrial managers Reviews current knowledge on human exposure to selected chemical agents and physical factors in the ambient environment Updates and revises the previous edition, in light of current scientific literature and its significance to public health concerns Includes new chapters on: airline cabin exposures, arsenic, endocrine disruptors, and nanoparticles
Chemical Food Safety National Academies Press
Offering over 2000 useful references and more than 200 helpful tables, equations, drawings, and photographs, this book presents research on food phosphates, commercial starches, antibrowning agents, essential fatty acids, and fat substitutes, as well as studies on consumer perceptions of food additives. With contributions from nearly 50 leading international authorities, the Second Edition of Food Additives details food additives for special dietary needs, contemporary studies on the role of food additives in learning, sleep, and behavioral problems in children, safety and regulatory requirements in the U.S. and the European Union, and methods to determine hypersensitivity.
Indirect Food Additives and Polymers CABI
Exposure to Engineered Nanomaterials in the Environment provide a new, holistic framework for testing and evaluating the potential benefits and risks of engineered nanomaterials (ENMs), including their potential socioeconomic impacts, ethical issues and consumers' expectations and fears. The book covers nanomaterial presence in various environments, agroecosystems and other areas within the human sphere of actions. The book includes sections on (i) Chemical, physical and biological properties, (ii) Presence and diffusion of ENMs in human environments, agriculture, food and drug products, (iii) ENMs as a pillar in biological and medical research, and (iv) Social and regulatory issues emerging from years of application. The book is designed to increase awareness to key end-users and stakeholders, including food producers and processors, industry, representatives of society and consumers, and those looking to implement an accurate and effective risk analysis procedure that promotes the sustainable use of nanotechnology. Assesses both the positive and negative impacts of engineered nanomaterials in the environment Shows how engineered nanomaterials are used in agricultural environments, food products, drugs and cosmetics Discusses the unique properties of a range of engineered

nanomaterials that lead to their environmental effects
Regulatory Toxicology John Wiley & Sons
This book presents an overview of the field of environmental law and policies within the European Union, from theoretical foundations to major issues and applied governance solutions. Drawing on expertise from renowned academics and practitioners from different disciplines, EU Environmental Governance: Current and Future Challenges helps readers to understand the main legal, political and economic issues of environmental protection since the adoption of the Paris Agreement by the European Union in 2015, until the 2020 Brexit, European Green Deal and coronavirus outbreak. The authors examine a broad range of sensitive and topical environmental issues including climate change, air pollution, waste management and circular economy, nuclear waste, biodiversity, agriculture, chemicals, nanotechnology, the environmental impacts of trade and environmental conflicts, presenting both current insights and future challenges. Overall, this volume exposes the reader to a vast array of empirical case studies, which will bolster their training and help tackle the environmental challenges faced by Europe today. This book is a valuable resource for students, researchers and policymakers across a broad range of fields, including environmental law and policies, environmental economics, climate science and environmental sociology.
The Sustainable Chef Academic Press
Providing a truly global overview of legislation in all major countries, this practical volume contains the information vital for manufactures of food contact materials and food producers, facilitating a comparison of the requirements and making mutual requirements easier to identify. It covers not only plastics but also other food contact materials, such as paper, board, coatings, ceramics, cork, rubber, and textiles.
Toxicity Testing John Wiley & Sons
This book will be written by experts for professionals, scientists and all those involved in toxicological data generation and decision-making. It is the updated and expanded version of a monograph published in German in 2004. Chemical safety is regulated on various levels including production, storage, transport, handling, disposal or labelling. This book deals comprehensively with the safety-ensuring methods and concepts employed by regulatory agencies, industry and academics. Toxicologists use experimental and scientific approaches for data collection, e.g. about chemical hazards, physicochemical features or toxicokinetics. The respective experimental methods are described in the book. Toxicologists also deal with much insecurity in the exposure and effect scenarios during risk assessment. To overcome these, they have different extrapolation methods and estimation procedures at their disposal. The book describes these methods in an accessible manner. Differing concepts from one regulation area to another are also covered. Reasons and consequences become evident when reading the book. Altogether, the book Regulatory Toxicology will serve as an excellent reference.
Per and polyfluorinated substances in the Nordic Countries CRC Press
The adulteration and fraudulent manufacture of medicines is an old problem, vastly aggravated by modern manufacturing and trade. In the last decade, impotent antimicrobial drugs have compromised the treatment of many deadly diseases in poor countries. More recently, negligent production at a Massachusetts compounding pharmacy sickened hundreds of Americans. While the national drugs regulatory authority (hereafter, the regulatory authority) is responsible for the safety of a country's drug supply, no single country can entirely guarantee this today. The once common use of the term counterfeit to describe any drug that is not what it claims to be is at the heart of the argument. In a narrow, legal sense a counterfeit drug is one that infringes on a registered trademark. The lay meaning is much broader, including any drug made with intentional deceit. Some generic drug companies and civil society groups object to calling bad medicines counterfeit, seeing it as the deliberate conflation of public health and intellectual property concerns. Countering the Problem of Falsified and Substandard Drugs accepts the narrow meaning of counterfeit, and, because the nuances of trademark infringement must be dealt with by courts, case by case, the report does not discuss the problem of counterfeit medicines.
Global Plastics Outlook Policy Scenarios to 2060 OECD Publishing
Ensuring Global Food Safety: Exploring Global Harmonization, Second Edition, examines the policies and practices of food law which remain top contributors to food waste. This fully revised and updated edition offers a rational and multifaceted approach to the science-based issue of "what is safe for consumption?" and how creating a globally acceptable framework of microbiological, toxicological and nutritional standards can contribute to the alleviation of hunger and food insecurity in the world. Currently, many laws and regulations are so stringent that healthy food is destroyed based on scientifically incorrect information upon which laws and regulations are based. This book illuminates these issues, offering guidelines for moving toward a scientifically sound approach to food safety regulation that can also improve food security without putting consumers at risk. Presents the progress and current status of regulatory harmonization for food standards Provides a science-based foundation for global regulatory consensus Approaches challenges from a risk-benefit approach, also including safety assurance Includes global perspectives from governmental, academic and industry experts
Chinese Criminal Trials Woodhead Publishing
In this first volume, various materials such as chitosan, lignin-based biomaterials, cellulosic based bio materials, carbon materials, Polysaccharide-composites materials, Aromatic-Based Synthetic Macromolecules, Agricultural wastes, etc for treating textile waste water are highlighted. One of the major pollutants in the textile and fashion industry is (textile) waste water. Textile wastewater can lead to serious environmental issues if discharged without proper and sufficient treatment. The materials employed along with the technologies available to trate waste water are the key. There are a lot of advancements in terms materials, technologies employed for textile waste water treatment. Sustainable bio-nano materials and macro molecules play a major role in the efficient treatment of textile waster.
Marine Mussels Routledge
This multidisciplinary book presents a critical assessment of our knowledge of chemical threats to environmental security, with special reference to prevention of chemical releases, rapid detection, risk assessment and effective management of emergency situations and long-term consequences of chemical releases. The technologies evaluated concern mainly prevention and management of both intentional and accident releases of chemicals into the environment. The book features contributors from a range of relevant scientific fields.
Handbook of Functionalized Nanomaterials for Industrial Applications National Academies Press

Food and beverages can be very aggressive chemical milieu and may interact strongly with materials that they touch. Whenever food is placed in contact with another substance, there is a risk that chemicals from the contact material may migrate into the food. These chemicals may be harmful if ingested in large quantities, or impart a taint or odour to the food, negatively affecting food quality. Food packaging is the most obvious example of a food contact material. As the demand for pre-packaged foods increases, so might the potential risk to consumers from the release of chemicals into the food product. Chemical migration and food contact materials reviews the latest controls and research in this field and how they can be used to ensure that food is safe to eat. Part one discusses the regulation and quality control of chemical migration into food. Part two reviews the latest developments in areas such as exposure estimation and analysis of food contact materials. The final part contains specific chapters on major food contact materials and packaging types, such as recycled plastics, metals, paper and board, multi-layer packaging and intelligent packaging. With its distinguished editors and international team of authors, Chemical migration and food contact materials is an essential reference for scientists and professionals in food packaging manufacture and food processing, as well as all those concerned with assessing the safety of food. Reviews worldwide regulation of food contact materials Includes the latest developments in the analysis of food contact materials Looks in detail at different food contact materials

EU Food Law and Policy Oxford University Press

The global community is far from achieving its objective of ending plastic pollution, unless more stringent and co-ordinated policies are implemented. A key question is: What are the plausible scenarios for the evolution of plastics in the absence of additional measures and, as well, with scaled-up policy action?

Food Additives OUP Oxford

Preventing contamination with problematic chemical compounds in food, from 'plant to plate and meat to meal', begins with an understanding of the food production and processing chain as well as relevant issues in toxicology and risk management. The diversity in origin and structure of unwanted chemical substances means that combating chemical contaminants in food needs a good understanding of science in a number of disciplines as well as the regulatory processes designed to minimise risks to a world population increasingly exposed through international trade. This book covers the basic and applied science needed to understand, analyse and take professional action on problems and questions concerning chemical food safety, from acute to long lasting problems that call for interventions on a local, regional, national or international level. Risk assessment is explained in the context of targeted future risk management and risk communication. The book follows problematic chemical compounds through production and processing of foods of plant, fungal, algal or animal origin, including oral exposure and intestinal absorption of such contaminants. The aim is to reach a harmonized level of understanding of all aspects of chemical food safety, so as to make the graduated student ready for work in all sectors related to food and its production.

Global Legislation for Food Contact Materials Nordic Council of Ministers

The field of bio-based plastics has developed significantly in the last 10 years and there is increasing pressure on industries to shift existing materials production from petrochemicals to renewables. Bio-based Plastics presents an up-to-date overview of the basic and applied aspects of bioplastics, focusing primarily on thermoplastic polymers for material use. Emphasizing materials currently in use or with significant potential for future applications, this book looks at the most important biopolymer classes such as polysaccharides, lignin, proteins and polyhydroxyalkanoates as raw materials for bio-based plastics, as well as materials derived from bio-based monomers like lipids, poly(lactic acid), polyesters, polyamides and polyolefines. Detailed consideration is also given to the market and availability of renewable raw materials, the importance of bio-based content and the aspect of biodegradability. Topics covered include: Starch Cellulose and cellulose acetate Materials based on chitin and chitosan Lignin matrix composites from natural resources Polyhydroxyalkanoates Poly(lactic acid) Polyesters, Polyamides and Polyolefins from biomass derived monomers Protein-based plastics Bio-based Plastics is a valuable resource for academic and industrial researchers who are interested in new materials, renewable resources, sustainability and polymerization technology. It will also prove useful for advanced students interested in the development of bio-based products and materials, green and sustainable chemistry, polymer chemistry and materials science. For more information on the Wiley Series in Renewable Resources, visit www.wiley.com/go/rrs

Textile Wastewater Treatment DEStech Publications, Inc

BOOKER PRIZE WINNER • NATIONAL BESTSELLER • A novel that follows a middle-aged man as he contends with a past he never much thought about—until his closest childhood friends return with a vengeance: one of them from the grave, another maddeningly present. A novel so compelling that it begs to be read in a single setting, The Sense of an Ending has the psychological and emotional depth and sophistication of Henry James at his best, and is a stunning achievement in Julian Barnes's oeuvre. Tony Webster thought he left his past behind as he built a life for himself, and his career has provided him with a secure retirement and an amicable relationship with his ex-wife and daughter, who now has a family of her own. But when he is presented with a mysterious legacy, he is forced to revise his estimation of his own nature and place in the world.

Food Flavors Vintage

Now in a fully revised and updated second edition, this volume provides a contemporary overview of food processing/packaging technologies. It acquaints the reader with food preservation processes, shelf life and logistical considerations, as well as packaging materials, machines and processes necessary for a wide range of packaging presentations. The new edition addresses environmental and sustainability concerns, and also examines applications of emerging technologies such as RFID and nanotechnology. It is directed at packaging technologists, those involved in the design and development of packaging, users of packaging in food companies and those who specify or purchase packaging. Key Features: An up-to-date and comprehensive handbook on the most important sector of packaging technology Links methods of food preservation to the packaging requirements of the common types of food and the available food packages Covers all the key packaging materials - glass, plastics and paperboard Fully revised second edition now covers sustainability, nanotechnology and RFID

Enhancing the Regulatory Decision-Making Approval Process for Direct Food Ingredient Technologies Springer Science & Business Media

Fully revised for this second edition, the Oxford Handbook of

Occupational Health provides a concise practice-based guide. Bringing together the latest legislation and guidance with current practice in the field, this is your authoritative guide to assessing and managing health risks in the workplace. Consisting of twelve sections covering the full breadth of practice, the Handbook includes workplace hazards and diseases, occupational health emergencies, and practical procedures. This second edition is also updated with new information on psychiatric emergencies, psychological therapies, chronic pain management, writing a policy, and obesity. Providing a thorough, easy-to-use guide to the whole of occupational health, this Handbook is the essential resource for all occupational physicians, occupational health nurses, occupational hygienists, and all those dealing with workplace health and fitness, giving you the information you need at your fingertips.

Exposure to Engineered Nanomaterials in the Environment
John Wiley & Sons
Wide-reaching and subject to few exceptions, the EU's new chemical regulatory programmes known as REACH impose obligations on all chemical companies, including manufacturers, importers, distributors, and product suppliers. This book addresses the key regulatory issues, management, and practical challenges associated with the REACH regulations.