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STIX4N - ROGERS NIXON

Freedom in the World is the standard-setting comparative assessment of global political rights and civil liberties. The methodology of this survey is derived in large measure from the Universal Declaration of Human Rights, and these standards are applied to all countries and territories.

Updates in Volcanology - From Volcano Modeling to Volcano Geology is a new book that is based on book chapters offered by various authors to provide a snapshot of current trends in volcanological researches. Following a short Introduction, the book consists of three sections, namely, "Understanding the Volcano System from Petrology, Geophysics to Large Scale Experiments," "Volcanic Eruptions and Their Impact to the Environment," and "Volcanism in the Geological Record." These sections collect a total of 13 book chapters demonstrating clearly the research activity in volcanology from geophysical aspects of volcanic systems to their geological framework. Each chapter provides a comprehensive summary of their subject's current re-

search directions. This book hence can equally be useful for students and researchers.

This volume emphasizes the growing need for wood products with advanced engineering properties. It details the fundamental principles of cellulose technology and presents current techniques to modifying the basic chemistry of lignocellulosic materials. The work: discusses the cost-efficient use of cellulose derivatives in a variety of commodities; highlights the chemical modification of wood by methods such as etherification, esterification and thermoplasticization; considers recent progress in the lignocellulosic liquefaction of wood; and more.

Recent neuroscience research makes it clear that human biology is cultural biology - we develop and live our lives in socially constructed worlds that vary widely in their structure values, and institutions. This integrative volume brings together interdisciplinary perspectives from the human, social, and biological sciences to explore culture, mind, and brain interactions and their impact on personal and societal issues. Contributors provide a fresh look at emerging con-

cepts, models, and applications of the co-constitution of culture, mind, and brain. Chapters survey the latest theoretical and methodological insights alongside the challenges in this area, and describe how these new ideas are being applied in the sciences, humanities, arts, mental health, and everyday life. Readers will gain new appreciation of the ways in which our unique biology and cultural diversity shape behavior and experience, and our ongoing adaptation to a constantly changing world.

This Test Guideline describes procedures designed to estimate the acute oral toxicity of substances to birds, and it provides three testing options: (1) limit dose test, (2) LD50-slope test, and (3) LD50-only test. The LD50-slope and LD50-only ...

This book presents the latest findings in clinical audiology with a strong emphasis on new emerging technologies that facilitate and optimize a better assessment of the patient. The book has been edited with a strong educational perspective (all chapters include an introduction to their corresponding topic and a glossary of terms). The book contains material suitable for graduate students in audiology, ENT, hearing science and neuroscience.

Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in

information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also available through the book's supporting website to help course instructors prepare their lectures.

A few years ago, MySpace.com was just an idea kicking around a Southern California spam mill. Scroll down to the present day and MySpace is one of the most visited Internet destinations in America, displaying more than 40 billion webpage views per month and generating nearly \$1 billion annually for Rupert Murdoch's online empire. Even by the standards of the Internet age, the MySpace saga is an astounding growth story, which climaxed with the site's acquisition by Murdoch's News Corporation in 2005 for a sum approaching one billion dollars. But more than that, it may be the defining drama of the digital era. In *Stealing MySpace*, Pulitzer Prize-winning journalist Julia Angwin chronicles the rise of this Internet powerhouse. With an unerring eye, Angwin details how MySpace took the Internet by storm by grabbing the best ideas from around the Web, encouraging pinup stars such as Tila Tequila to make their home on its pages and giving everyone freedom to experiment with online identities—including using somebody else's identity. *Stealing MySpace* introduces us to the site's founders, Chris DeWolfe and Tom Anderson, who dabbled in computer hacking, online pornography, spam, and spyware before starting MySpace. Although their street savvy, doggedness, and clubbing skills far eclipsed their tech prowess, they stumbled their way to success and soon found themselves at

ground zero of a high-stakes war that pitted Rupert Murdoch against his frequent nemesis, the combative Viacom CEO Sumner Redstone. Angwin sheds light on the dizzying backroom deals that allowed Murdoch to snatch MySpace from Viacom's grasp even as the MySpace founders remained in the dark about their own fate. Then she takes us inside the Murdoch empire as DeWolfe and Anderson lobby furiously to regain control of their creation. Venturing beyond the business aspects of the story, Angwin also explores the Internet culture, a voyeuristic world in which MySpace must stay one step ahead of amateur pornographers, sexual predators, and "spoofers" who set up fake profiles (Rupert Murdoch himself tolerates dozens of phony "Ruperts" on the site) and cope with the general excesses and sometimes illegal acts of a community of account holders equal in number to the population of Japan. In *Stealing MySpace*, Julia Angwin dishes on the epic real-world battle for control of a virtual empire. In a savvy, smart, fast-paced narrative reminiscent of Bryan Burrough and John Helyar's *Barbarians at the Gate* and Michael Lewis's *The New New Thing*, *Stealing MySpace* tells is the whole gripping story behind a breakout cultural phenomenon.

Every anaesthetist reaches the end of their career with a collection of difficult airway experiences. Managing airway challenges relies on a combination of good clinical practice, knowledge of relevant basic sciences and critical evaluation of every aspect of airway care. This new edition of *Core Topics in Airway Management* provides any trainee or consultant involved in airway techniques with practical, clinically relevant coverage of the core skills and knowledge required to

manage airways in a wide variety of patients and clinical settings. All new procedures and equipment are reviewed, and detailed chapters advise on airway issues in a range of surgical procedures. This edition also contains a series of practical questions and answers, enabling the reader to evaluate their knowledge. Written by leading airway experts with decades of experience managing difficult airways, *Core Topics in Airway Management*, 2nd edition is an invaluable tool for anaesthetists, intensivists, and emergency physicians.

Autoimmune bullous diseases are a group of rare skin diseases characterized by intraepidermal and subepidermal bullae formations due to autoantibodies directed against the structural proteins of the epidermis or the dermal-epidermal junction. Early and correct diagnosis and adequate treatment of autoimmune bullous diseases are important as they cause morbidity and mortality in the affected patients. This book, which gives detailed information about autoimmune bullous diseases, has two sections and nine chapters with sixteen contributing authors. The first section describes the structure and tasks of desmosomes and basement membrane zone, which consist of the major antigens of skin integrity targeted by autoantibodies. The second section is about the epidemiology, etiopathogenesis, mucocutaneous, histopathologic and laboratory findings, and therapy of autoimmune bullous diseases. **WINNER OF THE THURBER PRIZE** The compelling, inspiring, (often comic) coming-of-age story of Trevor Noah, set during the twilight of apartheid and the tumultuous days of freedom that followed. One of the comedy world's brightest new voices, Trevor Noah is a light-footed but sharp-minded observer of the absurdities of politics, race and identity, sharing

jokes and insights drawn from the wealth of experience acquired in his relatively young life. As host of the US hit show *The Daily Show with Trevor Noah*, he provides viewers around the globe with their nightly dose of biting satire, but here Noah turns his focus inward, giving readers a deeply personal, heartfelt and humorous look at the world that shaped him. Noah was born a crime, son of a white Swiss father and a black Xhosa mother, at a time when such a union was punishable by five years in prison. Living proof of his parents' indiscretion, Trevor was kept mostly indoors for the first years of his life, bound by the extreme and often absurd measures his mother took to hide him from a government that could, at any moment, take him away. A collection of eighteen personal stories, *Born a Crime* tells the story of a mischievous young boy growing into a restless young man as he struggles to find his place in a world where he was never supposed to exist. *Born a Crime* is equally the story of that young man's fearless, rebellious and fervently religious mother - a woman determined to save her son from the cycle of poverty, violence and abuse that ultimately threatens her own life. Whether subsisting on caterpillars for dinner during hard times, being thrown from a moving car during an attempted kidnapping, or just trying to survive the life-and-death pitfalls of dating in high school, Noah illuminates his curious world with an incisive wit and an unflinching honesty. His stories weave together to form a personal portrait of an unlikely childhood in a dangerous time, as moving and unforgettable as the very best memoirs and as funny as Noah's own hilarious stand-up. *Born a Crime* is a must read. A journalist's personal investigation of the evidence for Jesus.

Liquid Crystals - Self-Organized Soft Functional Materials for Advanced Applications is focused on both theoretical models and experimental results, pointing out the chemical and physical properties (thermodynamics, electro-optic switching behavior, and non-linear optic phenomena) of liquid crystals used in a wide range of devices. In this respect, the chapters cover the following topics: chemical structure and phase transitions in bent-core liquid crystals, phase and structural behavior of liquid crystals used to align carbon nanotubes, molecular alignment, and photorefractive effect in the ferroelectric phase, which has the potential to be used as transistors, for image storage, and in optical signal processing. It is expected that the book will be of interest to researchers in academia and industries, as well as advanced students.

This edited book, *Toxicity and Hazard of Agrochemicals*, is intended to provide an overview of toxicology that examines the hazardous effects of common agrochemicals employed every day in our agricultural practices. Furthermore, it is hoped that the information in the present book will be of value to those directly engaged in the handling and use of agrochemicals and that this book will continue to meet the expectations and needs of all interested in the different aspects of human and environmental risk toxicities.

Disinfection is a method used to destroy most microbial forms, especially vegetative pathogens, by using physical and chemical procedures such as chlorination, UV radiation, boiling, vapor, etc. Biotic surfaces such as skin and abiotic surfaces such as contaminated medical devices and kitchen equipment exposed to cross contamination must be disinfected. Especially, inadequate disinfection of water can be fatal and cause life-threaten-

ing outbreaks. For this reason, water must be disinfected adequately by appropriate methods. There are several factors that affect the efficacy of disinfection against pathogens, such as capacity of biofilm and spore formation, having antibiotic resistance, etc. It is hard to destroy bacterial biofilms, bacterial spores, and resistant microorganisms. Some bacterial spores and resistant microorganisms can withstand disinfectants, so adequate disinfection must be done by appropriate methods. The aim of this book is to summarize disinfection, disinfection methods, and chemical analysis of by-products by providing up-to-date topics.

Got something to sell? With more than 150,000,000 members, MySpace is your #1 marketing opportunity! Whether you're a business, band, or organization, MySpace is the place to deliver your message and reach your customers. Best of all, you don't need to spend a fortune to profit from MySpace marketing: just get this book! MySpace marketing pioneer Sean Percival covers all the free and dirt-cheap guerrilla marketing techniques you'll ever need, including Identifying and precision-targeting your audience Promoting your band, music, event, nightclub, or movie Reaching the 60% of MySpace users who are 25 or older Creating and designing a highly-effective MySpace profile Quickly building your friend network Attracting "must-have" friends who build buzz and businesses Planning your marketing "call to action" Optimizing search engines to find your profile Making the most of MySpace video, music, and blogs Marketing to specific high schools or colleges Hiring through MySpace

An International Bestseller. An Economist Book of the Year. A Financial Times Book

of the Year. Shortlisted for the Financial Times Business Book of the Year. Wikinomics shows how businesses can collaborate creatively with their customers to succeed in the age of Wikipedia, YouTube and Linux: 'The Number 1 must-read... A breathtaking piece of work.' Tom Peters. The knowledge, resources and computing power of billions of people are self-organizing into a massive, new collective force. Interconnected and orchestrated via blogs, wikis, chat rooms, peer-to-peer networks, and personal broadcasting, the web is being reinvented to provide the first global platform for collaboration in history.

Data has become a social and political issue because of its capacity to reconfigure relationships between states, subjects, and citizens. This book explores how data has acquired such an important capacity and examines how critical interventions in its uses in both theory and practice are possible. Data and politics are now inseparable: data is not only shaping our social relations, preferences and life chances but our very democracies. Expert international contributors consider political questions about data and the ways it provokes subjects to govern themselves by making rights claims. Concerned with the things (infrastructures of servers, devices, and cables) and language (code, programming, and algorithms) that make up cyberspace, this book demonstrates that without understanding these conditions of possibility it is impossible to intervene in or to shape data politics. Aimed at academics and postgraduate students interested in political aspects of data, this volume will also be of interest to experts in the fields of internet studies, international studies, Big Data, digital social sciences and humanities.

Principles of Parenteral Solution Valida-

tion: A Practical Lifecycle Approach covers all aspects involved in the development and process validation of a parenteral product. By using a lifecycle approach, this book discusses the latest technology, compliance developments, and regulatory considerations and trends, from process design, to divesting. As part of the Expertise in Pharmaceutical Process Technology series edited by Michael Levin, this book incorporates numerous case studies and real-world examples that address timely problems and offer solutions to the daily challenges facing practitioners in this area. Discusses international and domestic regulatory considerations in every section Features callout boxes that contain points-of-interest for each segment of the audience so readers can quickly find their interests and needs Contains important topics, including risk management, the preparation and execution of properly designed studies, scale-up and technology transfer activities, problem-solving, and more

Two key challenges face mental health practitioners: making the correct psychiatric diagnosis and choosing the most appropriate treatment option. This book aims to help with both. *Clinical Guide to the Diagnosis and Treatment of Mental Disorders - Second Edition* combines clinically-relevant information about each of the DSM-IV-TR diagnoses with clear, detailed information on treatment options, giving full clinical management advice. Once again, the editors, both leading psychiatrists, have condensed the chapters on Disorders from Tasman et al's acclaimed two volume textbook of Psychiatry (now in its Third Edition), retaining only the content they deem particularly relevant to the clinician for ease of use. Each disorder is discussed under the headings of Diagnosis (including As-

essment Issues, Comorbidity, Course, and Differential Diagnosis, giving diagnostic decision trees where relevant) and Treatment (listing all therapeutic options, giving practical advice for patient management, summarising treatment specifics with tables and treatment flowcharts). The original edition established itself as the first point of reference for any clinician or mental health practitioner needing expert advice on therapeutic options for any psychiatric disorder. This edition features an additional chapter on the psychiatric interview and assessment of mental status to increase its utility. It echoes the progress in psychiatry regarding the establishment of an evidenced-based model of taxonomy, diagnosis, etiology, and treatment. Indeed, from a psychologist's perspective, the equal consideration provided to empirically supported psychosocial treatments versus somatic treatment is a significant development in the field of psychiatry. Jonathan Weinand in *PsycCritiques*, the American Psychological Association Review of Books

Work began in 1990 to harmonise the criteria and methodologies used to record data on accidents at work in Europe. There have been three phases to the project. The first looked at the economic activity of the employer, age and sex of the victim and nature of the injury. The second supplemented this information with data on the size of the enterprise and the victims' nationality and employment status. The third phase looked at harmonising the classifications and variables of causes and circumstances of accidents at work. This publication represents the work on the methodology of the three phases and presents a full set of variables with their classifications, explanatory notes and coding guides. It is

intended primarily for the institutions responsible for recording and processing information on accidents at work, e.g. statistical offices, insurance companies and mutual societies. More widely it will be of interest to experts working in the field and businesses in general.

#1 New York Times Bestseller Over 10 million copies sold In this generation-defining self-help guide, a superstar blogger cuts through the crap to show us how to stop trying to be "positive" all the time so that we can truly become better, happier people. For decades, we've been told that positive thinking is the key to a happy, rich life. "F**k positivity," Mark Manson says. "Let's be honest, shit is f**ked and we have to live with it." In his wildly popular Internet blog, Manson doesn't sugarcoat or equivocate. He tells it like it is—a dose of raw, refreshing, honest truth that is sorely lacking today. *The Subtle Art of Not Giving a F**k* is his antidote to the coddling, let's-all-feel-good mindset that has infected American society and spoiled a generation, rewarding them with gold medals just for showing up. Manson makes the argument, backed both by academic research and well-timed poop jokes, that improving our lives hinges not on our ability to turn lemons into lemonade, but on learning to stomach lemons better. Human beings are flawed and limited—"not everybody can be extraordinary, there are winners and losers in society, and some of it is not fair or your fault." Manson advises us to get to know our limitations and accept them. Once we embrace our fears, faults, and uncertainties, once we stop running and avoiding and start confronting painful truths, we can begin to find the courage, perseverance, honesty, responsibility, curiosity, and forgiveness we seek. There are only so many things we can give a f**k about so we need to

figure out which ones really matter, Manson makes clear. While money is nice, caring about what you do with your life is better, because true wealth is about experience. A much-needed grab-you-by-the-shoulders-and-look-you-in-the-eye moment of real-talk, filled with entertaining stories and profane, ruthless humor, *The Subtle Art of Not Giving a F**k* is a refreshing slap for a generation to help them lead contented, grounded lives.

Chemical Engineering Volume 2 covers the properties of particulate systems, including the character of individual particles and their behaviour in fluids. Sedimentation of particles, both singly and at high concentrations, flow in packed and fluidised beds and filtration are then examined. The latter part of the book deals with separation processes, such as distillation and gas absorption, which illustrate applications of the fundamental principles of mass transfer introduced in Chemical Engineering Volume 1. In conclusion, several techniques of growing importance - adsorption, ion exchange, chromatographic and membrane separations, and process intensification - are described. * A logical progression of chemical engineering concepts, volume 2 builds on fundamental principles contained in Chemical Engineering volume 1 and these volumes are fully cross-referenced * Reflects the growth in complexity and stature of chemical engineering over the last few years * Supported with further reading at the end of each chapter and graded problems at the end of the book

"This publication seeks to identify the relationship between freedom of expression and Internet privacy, assessing where they support or compete with each other in different circumstances. The book maps out the issues in the cur-

rent regulatory landscape of Internet privacy from the viewpoint of freedom of expression. It provides an overview of legal protection, self-regulatory guidelines, normative challenges, and case studies relating to the topic. With this publication UNESCO aims to provide its Member States and other stakeholders, national and international, with a useful reference tool containing up-to-date and sharp information on emerging issues relevant to both developed and developing countries. Multiple stakeholders, preferably in dialogue, can use it in their own spheres of operation, adapting where appropriate from the range of experiences as recorded in these pages. The publication also supplies additional sources of reference for interested readers to use to further investigate each of the subjects highlighted. The publication explores a range of issues, such as: (1) threats to privacy that have developed through the Internet, (2) international legal standards on privacy and responses to these emerging issues, (3) complex intersections between the rights to privacy and freedom of expression, (4) UNESCO recommendations to states and corporations for better practice, (5) overview of literature, background material and tools on international and national policy and practice on privacy and freedom of expression on the Internet. In the coming years, UNESCO will specifically seek to disseminate information about good practices and international collaboration concerning the points of intersection between freedom of expression and privacy. Research on safeguarding the principle of freedom of expression in Internet policy across a range of issues will continue to be part of UNESCO's normative mandate and technical advice to stakeholders."--Publisher's description

Social security rulings on federal old-age, survivors, disability, and supplemental security income; and black lung benefits.

Marvelous landscapes of human experience and emotion rendered through the magnification of our tears

Outstanding scientific advances over the last decades unceasingly reveal real complexity of wound-healing process, astonishing in its staged progression, as life is unfolding itself. This natural course of tissue repair seems to bear thousands of overlapping molecular and macroscopic processes that nowadays only start to unfold to our knowledge. The present volume collecting recent scientific references proposes to readers a two-folded audacious goal. First, an updated design of intimate cellular mechanisms is entailed in tissue regeneration that emanates from the first section of the book. Next, a multidisciplinary therapeutic perspective that focuses on macroscopic healing throughout the second part of this work adds clinically integrated observation. Practical diagnostic and treatment information is appended in each chapter that may equally help experienced clinicians or dedicated students and researchers in broadening essential breaking points of their work. It is the wish of all multidisciplinary experts who gather prominent author's panel of this volume to incorporate latest medical reports and compel limits of current understanding for better tissue regeneration, limb salvage, and improved quality of life of our patients.

An introduction to a broad range of topics in deep learning, covering mathematical and conceptual background, deep learning techniques used in industry, and research perspectives. "Written by three experts in the field, Deep Learning is the only comprehensive book on the

subject.” —Elon Musk, cochair of OpenAI; cofounder and CEO of Tesla and SpaceX

Deep learning is a form of machine learning that enables computers to learn from experience and understand the world in terms of a hierarchy of concepts. Because the computer gathers knowledge from experience, there is no need for a human computer operator to formally specify all the knowledge that the computer needs. The hierarchy of concepts allows the computer to learn complicated concepts by building them out of simpler ones; a graph of these hierarchies would be many layers deep. This book introduces a broad range of topics in deep learning. The text offers mathematical and conceptual background, covering relevant concepts in linear algebra, probability theory and information theory, numerical computation, and machine learning. It describes deep learning techniques used by practitioners in industry, including deep feedforward networks, regularization, optimization algorithms, convolutional networks, sequence modeling, and practical methodology; and it surveys such applications as natural language processing, speech recognition, computer vision, online recommendation systems, bioinformatics, and videogames. Finally, the book offers research perspectives, covering such theoretical topics as linear factor models, autoencoders, representation learning, structured probabilistic models, Monte Carlo methods, the partition function, approximate inference, and deep generative models. Deep Learning can be used by undergraduate or graduate students planning careers in either industry or research, and by software engineers who want to begin using deep learning in their products or platforms. A website offers supplementary material for both readers and instructors.

Smart Textiles and Their Applications outlines the fundamental principles of applied smart textiles, also reporting on recent trends and research developments. Scientific issues and proposed solutions are presented in a rigorous and constructive way that fully presents the various results, prototypes, and case-studies obtained from academic and industrial laboratories worldwide. After an introduction to smart textiles and their applications from the editor, Part One reviews smart textiles for medical purposes, including their use in health monitoring, treatment delivery, and assistive technologies. Part Two covers smart textiles for transportation and energy, with chapters covering smart textiles for the monitoring of structures and processes, as well as smart textiles for energy generation. The final section considers smart textiles for protection, security, and communication, and includes chapters covering electrochromic textile displays, textile antennas, and smart materials for personal protective equipment. Scientific issues and proposed solutions are presented in a rigorous and constructive way regarding various results, prototypes, and case-studies obtained from academic and industrial laboratories worldwide Useful for researchers and postgraduate students, and also for existing companies and start-ups that are developing products involving smart textiles Authored and edited by an international team who are experts in the field ensure comprehensive coverage and global relevance

The all-time bestselling PC reference, fully updated for the newest technologies! Previous editions of this fun and friendly PC guide have sold more than three million copies, making it the bestselling PC reference in the world. Dan Gookin, the author whose straightforward and entertaining style is the foundation of the For

Dummies series, gives you the same easy-to-follow guidance in this edition, fully updated for Windows 8, using the cloud, and all the newest PC bells and whistles. It's perfect for the absolute beginner as well as for anyone switching to the latest hardware and software. Updated with information on all the latest upgrades, this edition of a worldwide best-seller covers all the essentials of using a PC, and presents them in a fun, non-intimidating style. Popular technology author Dan Gookin starts at the beginning with all the basics that other books assume everyone knows. Covers setting up your PC, exploring the Windows 8 interface, using network hardware and software, getting online and browsing with the newest version of Internet Explorer, setting up an e-mail account, connecting to the cloud, and using cloud-based services. Shows you how to install and upgrade programs and manage files and folders. Explores working with digital photos, downloading music, watching movies, and participating in social media. PCs For Dummies, 12th Edition is the jargon-free, easy-to-use guide to everything you need to know about your PC.

This text presents the most current knowledge on the environmental impact of materials and products developed using nanotechnology. Although nanomaterials are revolutionising electronics, medicine, transportation and many other industries, they pose risks to living beings and ecosystems that are barely understood. Leading researchers here consider the science of nanomaterials, their behaviour in the environment, risk assessment and toxicology, and the future of nanomaterials.

This is the United Nations definitive report on the state of the world economy, providing global and regional economic outlook for 2020 and 2021. Produced by

the Department of Economic and Social Affairs, the five United Nations regional commissions, the United Nations Conference on Trade and Development, with contributions from the UN World Tourism Organization and other intergovernmental agencies.

The system design interview is considered to be the most complex and most difficult technical job interview by many. Those questions are intimidating, but don't worry. It's just that nobody has taken the time to prepare you systematically. We take the time. We go slow. We draw lots of diagrams and use lots of examples. You'll learn step-by-step, one question at a time. Don't miss out. What's inside? - An insider's take on what interviewers really look for and why. - A 4-step framework for solving any system design interview question. - 16 real system design interview questions with detailed solutions. - 188 diagrams to visually explain how different systems work.

In spite of the growing importance of Species Sensitivity Distribution models (SSDs) in ecological risk assessments, the conceptual basis, strengths, and weaknesses of using them have not been comprehensively reviewed. This book fills that need. Written by a panel of international experts, Species Sensitivity Distributions in Ecotoxicology reviews the current SSD methods from all angles, compiling for the first time the variety of contemporary applications of SSD-based methods. Beginning with an introduction to SSDs, the chapter authors review the issues surrounding SSDs, synthesizing the positions of advocates and critics with their own analysis of each issue. Finally, they discuss the prospects for future development, paving the way for improved future uses. In sum, this book defines the field of SSD modeling and ap-

plication. It reveals a lively field, with SSD-applications extending beyond legally adopted quality criteria to other applications such as Life-Cycle Analysis. For anyone developing or revising environmental criteria or standards, this book explores the pros and cons of using the SSD approach. For anyone who needs to apply and interpret SSD-based criteria or standards, the book explains the basis for the numbers, thereby making it possible to correctly apply and defend them. For anyone performing ecological risk assessments, the book covers when and how to use SSDs including alternative assumptions, data treatments, computational methods, and available resources. Species Sensitivity Distributions in Ecotoxicology provides you with a clear picture of these standard models for estimating ecological risks from laboratory toxicity data.

The last decade has witnessed a rapid surge of interest in new sensing and monitoring devices for wellbeing and healthcare. One key development in this area is wireless, wearable and implantable in vivo monitoring and intervention. A myriad of platforms are now available from both academic institutions and commercial organisations. They permit the management of patients with both acute and chronic symptoms, including diabetes, cardiovascular diseases, treatment of epilepsy and other debilitating neurological disorders. Despite extensive developments in sensing technologies, there are significant research issues related to system integration, sensor miniaturisation, low-power sensor interface, wireless telemetry and signal

processing. In the 2nd edition of this popular and authoritative reference on Body Sensor Networks (BSN), major topics related to the latest technological developments and potential clinical applications are discussed, with contents covering. Biosensor Design, Interfacing and Nanotechnology Wireless Communication and Network Topologies Communication Protocols and Standards Energy Harvesting and Power Delivery Ultra-low Power Bio-inspired Processing Multi-sensor Fusion and Context Aware Sensing Autonomic Sensing Wearable, Ingestible Sensor Integration and Exemplar Applications System Integration and Wireless Sensor Microsystems The book also provides a comprehensive review of the current wireless sensor development platforms and a step-by-step guide to developing your own BSN applications through the use of the BSN development kit.

This state-of-the-art volume represents the first comprehensively written book which focuses on the new field of biosorption. This fascinating work conveys essential fundamental information and outlines the perspectives of biosorption. It summarizes the metal-sorbing properties of nonliving bacterial, fungal, and algal biomass, plus highlights relevant metal-binding mechanisms. This volume also discusses the aspects of obtaining and processing microbial biomass and metal-chelating chemicals into industrially applicable biosorbent products. Microbiologists, chemists, and engineers with an interest in new technological and scientific horizons will find this reference indispensable.