

Ambient Weather Ws 1171 Advanced Weather Station User Manual

Treatise on Water Science Safe Management of Wastes from Health-care Activities Bats in the Anthropocene: Conservation of Bats in a Changing World Algae and their Biotechnological Potential The Happy in a Hurry Cookbook Climate Intervention Light-Emitting Diodes The Woody Plant Seed Manual Sewage Treatment Plants Biogeochemical Dynamics at Major River-Coastal Interfaces Meteorology of Air Pollution HCI Beyond the GUI Integration and Innovation Orient to E-Society Volume 1 Health Issues in the Black Community Experimental Techniques in Plant Disease Epidemiology Flight Stability and Automatic Control The California Spotted Owl Cotton Production Guide for the Care and Use of Laboratory Animals Understanding Risk Lithium-ion Batteries The European Landing Obligation Genetic Algorithms in Search, Optimization, and Machine Learning Water Quality Conservation Biology for All Understanding Wine Chemistry Epidemiology and Management of Root Diseases Handbook of Humidity Measurement, Volume 1 Physics and Chemistry of Interfaces Climate Change in the Northwest Climate Change and Water Environmental Contaminants ECMO-Extracorporeal Life Support in Adults Divining a Digital Future Novel Biotechnologies for Biocontrol Agent Enhancement and Management Free-Space Laser Communications Control Strategies for Advanced Driver Assistance Systems and Autonomous Driving

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Functions Plant Genetics and Biotechnology in Biodiversity Handbook of Batteries Coastal Sediments 2019 - Proceedings Of The 9th International Conference

Treatise on Water Science

Revised and fully updated, the second edition of this graduate textbook offers a comprehensive explanation of the technology and physics of LEDs such as infrared, visible-spectrum, ultraviolet, and white LEDs made from III-V semiconductors. Elementary properties such as electrical and optical characteristics are reviewed, followed by the analysis of advanced device structures. With nine additional chapters, the treatment of LEDs has been vastly expanded, including new material on device packaging, reflectors, UV LEDs, III-V nitride materials, solid-state sources for illumination applications, and junction temperature. Radiative and non-radiative recombination dynamics, methods for improving light extraction, high-efficiency and high-power device designs, white-light emitters with wavelength-converting phosphor materials, optical reflectors, and spontaneous recombination in resonant-cavity structures are discussed in detail. With exercises, solutions, and illustrative examples, this textbook will be of interest to scientists and engineers working on LEDs and graduate students in electrical engineering, applied physics, and materials science.

Safe Management of Wastes from Health-care Activities

The growing problem of changing environmental conditions caused by climate destabilization is well recognized as one of the defining issues of our time. The root problem is greenhouse gas emissions, and the fundamental solution is curbing those emissions. Climate geoengineering has often been considered to be a "last-ditch" response to climate change, to be used only if climate change damage should produce extreme hardship. Although the likelihood of eventually needing to resort to these efforts grows with every year of inaction on emissions control, there is a lack of information on these ways of potentially intervening in the climate system. As one of a two-book report, this volume of Climate Intervention discusses albedo modification - changing the fraction of incoming solar radiation that reaches the surface. This approach would deliberately modify the energy budget of Earth to produce a cooling designed to compensate for some of the effects of warming associated with greenhouse gas increases. The prospect of large-scale albedo modification raises political and governance issues at national and global levels, as well as ethical concerns. Climate Intervention: Reflecting Sunlight to Cool Earth discusses some of the social, political, and legal issues surrounding these proposed techniques. It is far easier to modify Earth's albedo than to determine whether it should be done or what the consequences might be of such an action. One serious concern is that such an action could be unilaterally undertaken by a small nation or smaller entity for its own benefit without international sanction and regardless of

international consequences. Transparency in discussing this subject is critical. In the spirit of that transparency, *Climate Intervention: Reflecting Sunlight to Cool Earth* was based on peer-reviewed literature and the judgments of the authoring committee; no new research was done as part of this study and all data and information used are from entirely open sources. By helping to bring light to this topic area, this book will help leaders to be far more knowledgeable about the consequences of albedo modification approaches before they face a decision whether or not to use them.

Bats in the Anthropocene: Conservation of Bats in a Changing World

Climate Change in the Northwest: Implications for Our Landscapes, Waters, and Communities is aimed at assessing the state of knowledge about key climate impacts and consequences to various sectors and communities in the northwest United States. It draws on a wealth of peer-reviewed literature, earlier state-level assessment reports conducted for Washington (2009) and Oregon (2010), as well as a risk-framing workshop. As an assessment, it aims to be representative (though not exhaustive) of the key climate change issues as reflected in the growing body of Northwest climate change science, impacts, and adaptation literature now available. This report will serve as an updated resource for scientists, stakeholders,

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decision makers, students, and community members interested in understanding and preparing for climate change impacts on Oregon, Washington, and Idaho. This more detailed, foundational report is intended to support the key findings presented in the Northwest chapter of the Third National Climate Assessment.

Algae and their Biotechnological Potential

Wine chemistry inspires and challenges with its complexity, and while this is intriguing, it can also be a barrier to further understanding. The topic is demystified in *Understanding Wine Chemistry*, which explains the important chemistry of wine at the level of university education, and provides an accessible reference text for scientists and scientifically trained winemakers alike. *Understanding Wine Chemistry: Summarizes the compounds found in wine, their basic chemical properties and their contribution to wine stability and sensory properties Focuses on chemical and biochemical reaction mechanisms that are critical to wine production processes such as fermentation, aging, physiochemical separations and additions Includes case studies showing how chemistry can be harnessed to enhance wine color, aroma, flavor, balance, stability and quality. This descriptive text provides an overview of wine components and explains the key chemical reactions they undergo, such as those controlling the transformation of grape components, those that arise during fermentation, and the evolution of wine flavor and color. The book aims to guide the reader, who perhaps only has a basic*

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knowledge of chemistry, to rationally explain or predict the outcomes of chemical reactions that contribute to the diversity observed among wines. This will help students, winemakers and other interested individuals to anticipate the effects of wine treatments and processes, or interpret experimental results based on an understanding of the major chemical reactions that can occur in wine.

The Happy in a Hurry Cookbook

A respected resource for decades, the Guide for the Care and Use of Laboratory Animals has been revised by a committee of experts, based on input from scientists and the public. The Guide incorporates recent research on commonly used species, including farm animals, and includes extensive references. It is organized around major components of animal use: Institutional policies and responsibilities. The committee discusses areas that require policy attention: the role and function of the Institutional Animal Care and Use Committee, protocols for animal care and use, occupational health and safety, personnel qualifications, and other areas. Animal environment, husbandry, and management. The committee offers guidelines on how to design and run a management program, addressing environment, nutrition, sanitation, behavioral and social issues, genetics, nomenclature, and more. Veterinary care. The committee discusses animal procurement and transportation, disease and preventive medicine, and surgery. The Guide addresses pain recognition and relief and issues surrounding

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euthanasia. Physical plant. The committee identifies design and construction issues, providing guidelines for animal-room doors, drainage, noise control, surgery, and other areas. The Guide for the Care and Use of Laboratory Animals provides a framework for the judgments required in the management of animal facilities--a resource of proven value, now updated and expanded. This revision will be important to researchers, animal care technicians, facilities managers, administrators at research institutions, policymakers involved in research issues, and animal welfare advocates.

Climate Intervention

In this follow up to their New York Times bestseller *The Happy Cookbook*, Fox & Friends cohost Steve Doocy and his wife, Kathy, share more hilarious stories and offer crowd-pleasing recipes that are quick, easy, and delicious. Steve Doocy and his wife, Kathy, believe the kitchen and the family dinner table should be happy places where memories are made and shared. But most of us don't have the time to spend hours in the kitchen. Steve and Kathy are no exception, and with *The Happy in a Hurry Cookbook*, they bring together more than a hundred recipes for favorite comfort foods that come together in a flash—from last-minute entrees to set-it-and-forget-it slow-cooker meals. *The Happy in a Hurry Cookbook* includes recipes covering a variety of occasions and favorite foods, from holidays, casseroles, and one-pot meals to chicken, pasta, and desserts, as well as a whole

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chapter devoted to the ultimate comfort ingredient: potatoes. Steve and Kathy also share their clever Happy in a Hurry Hacks, which save prep and cooking time and can be used no matter what recipes you're using. Best of all, they include more hilarious and heartwarming stories from the Doocy family and (some well-known) friends. With The Happy in a Hurry Cookbook you can enjoy time-saving, all-American home cooking at its best—nothing fancy, everything delicious—with recipes such as: Buffalo Chicken Tacos Carrot Cake Waffles Red, White, and Blueberry Summer Fruit Salad Crockpot Carnitas Pumpkin-Swirled Mashed Potatoes Sweet Tea Fried Chicken Bacon Braided Smoked Turkey Breast Ritz Cracker Crust Peanut Butter Pie Six-Minute Strawberry Pie Best of all, the easy, pleasing recipes in The Happy in a Hurry Cookbook leave you and your family with more time to do the things you love! The Happy in a Hurry Cookbook is illustrated with 65 color food photos throughout and homey shots of the Doocys with friends and family, sure to please their many fans.

Light-Emitting Diodes

The Woody Plant Seed Manual

This open access book provides a comprehensive examination of the European

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Landing Obligation policy from many relevant perspectives. It includes evaluations of its impacts at economical, socio-cultural, ecological and institutional levels. It also discusses the feasibility and benefits of several potential mitigation strategies. The book was timely published, exactly at the time where the Landing Obligation was planned to be fully implemented. This book is of significant interest to all stakeholders involved, but also to the general public of Europe and to other jurisdictions throughout the world that are also searching for ways to deal with by-catch and discard issues.

Sewage Treatment Plants

The Technical Paper addresses the issue of freshwater. Sealevel rise is dealt with only insofar as it can lead to impacts on freshwater in coastal areas and beyond. Climate, freshwater, biophysical and socio-economic systems are interconnected in complex ways. Hence, a change in any one of these can induce a change in any other. Freshwater-related issues are critical in determining key regional and sectoral vulnerabilities. Therefore, the relationship between climate change and freshwater resources is of primary concern to human society and also has implications for all living species. -- page vii.

Biogeochemical Dynamics at Major River-Coastal Interfaces

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Algae are important organisms that include seaweeds and a number of single-celled and multicellular microscopic forms. Algae are ubiquitous; they inhabit almost everywhere including oceans, freshwater bodies, rocks, soils, and trees. Man's uses of algae may date back to ancient times. In recent decades, there has been renewed interest in the utilization of algae as sources of health food and high-value chemicals and pharmaceuticals, and for aquaculture, agriculture, and wastewater treatment. Nevertheless, the biotechnological potential of algae is still far from fully exploited, due to a lack of understanding of algal characteristics and culture systems, as well as of advanced research techniques. This book contains selected papers presented at the Fourth Asia-Pacific Conference on Algal Biotechnology held in Hong Kong, on 3-6 July, 2000. Written by experts in the field, this book provides a state-of-the-art account of algal biotechnology research. Topics range from use of algae in agriculture to environmental monitoring and protection, from algal culture systems to production of high-value chemicals and pharmaceuticals by algae, and from algal product purification to gene transformation and regulations. This book is intended for use by researchers and industrialists in the field of algal biotechnology. It will also be an important reference for undergraduate and postgraduate students in biotechnology and food science, as well as in biology in general.

Meteorology of Air Pollution

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This book focuses on central themes related to the conservation of bats. It details their response to land-use change and management practices, intensified urbanization and roost disturbance and loss. Increasing interactions between humans and bats as a result of hunting, disease relationships, occupation of human dwellings, and conflict over fruit crops are explored in depth. Finally, contributors highlight the roles that taxonomy, conservation networks and conservation psychology have to play in conserving this imperilled but vital taxon. With over 1300 species, bats are the second largest order of mammals, yet as the Anthropocene dawns, bat populations around the world are in decline. Greater understanding of the anthropogenic drivers of this decline and exploration of possible mitigation measures are urgently needed if we are to retain global bat diversity in the coming decades. This book brings together teams of international experts to provide a global review of current understanding and recommend directions for future research and mitigation.

HCI Beyond the GUI

The third edition of this excellent textbook for advanced students in material science, chemistry, physics, biology, engineering, or for researchers needing background knowledge in surface and interface science. The general yet comprehensive introduction to this field focuses on the essential concepts rather than specific details, on intuitive understanding rather than learning facts. The text

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reflects the many facets of this discipline by linking physical fundamentals, especially those taken from thermodynamics, with application-specific topics. Similarly, the theory behind important concepts is backed by clearly explained scientific-engineering aspects, as well as by a wide range of high-end applications from microelectronics and biotechnology. Manifold high-end applications from surface technology, biotechnology, and microelectronics are used to illustrate the basic concepts. New to this edition are such hot topics as second harmonic generation spectroscopy, surface diffusion mechanisms and measurement of surface diffusion, optical spectroscopy of surfaces, atomic layer deposition, superlubricity, bioadhesion, and spin coating. At the same time, the discussions of liquid surfaces, the Marangoni effect, electric double layer, measurement of surface forces, wetting, adsorption, and experimental techniques have been updated, while the number and variety of exercises are increased, and the references updated.

Integration and Innovation Orient to E-Society Volume 1

Provides engineers and technicians with detailed data and information on the characteristics, properties, performance, and uses of all types of electric batteries.

Health Issues in the Black Community

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Water quality and management are of great significance globally, as the demand for clean, potable water far exceeds the availability. Water science research brings together the natural and applied sciences, engineering, chemistry, law and policy, and economics, and the Treatise on Water Science seeks to unite these areas through contributions from a global team of author-experts. The 4-volume set examines topics in depth, with an emphasis on innovative research and technologies for those working in applied areas. Published in partnership with and endorsed by the International Water Association (IWA), demonstrating the authority of the content Editor-in-Chief Peter Wilderer, a Stockholm Water Prize recipient, has assembled a world-class team of volume editors and contributing authors. Topics related to water resource management, water quality and supply, and handling of wastewater are treated in depth.

Experimental Techniques in Plant Disease Epidemiology

The quality of water, whether it is used for drinking, irrigation or recreational purposes, is significant for health in both developing and developed countries worldwide. This book is based on a programme of work undertaken by an international group of experts during 1999-2001. The aim was to develop a harmonised framework of effective and affordable guidelines and standards to improve the risk assessment and management of water-related microbial hazards. This book will be useful to all those concerned with issues relating to microbial

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water quality and health, including environmental and public health scientists, water scientists, policy makers and those responsible for developing standards and regulations.

Flight Stability and Automatic Control

A gentle introduction to genetic algorithms. Genetic algorithms revisited: mathematical foundations. Computer implementation of a genetic algorithm. Some applications of genetic algorithms. Advanced operators and techniques in genetic search. Introduction to genetics-based machine learning. Applications of genetics-based machine learning. A look back, a glance ahead. A review of combinatorics and elementary probability. Pascal with random number generation for fortran, basic, and cobol programmers. A simple genetic algorithm (SGA) in pascal. A simple classifier system(SCS) in pascal. Partition coefficient transforms for problem-coding analysis.

The California Spotted Owl

This Proceedings contains over 260 papers on cutting-edge research presented at the 9th International Conference on Coastal Sediments 2019 (CS19), held in Tampa/St. Petersburg, Florida, USA from May 27-31, 2019. This technical specialty

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conference is devoted to promoting an interdisciplinary exchange of state-of-the-art knowledge among researchers in the fields of coastal engineering, geology, oceanography, and related disciplines. With the theme of 'Advancing Science & Engineering for Resilient Coastal Systems', this Proceedings covers a wide range of research topics on coastal sediment processes from nearshore sediment transport and modelling to beach processes, shore protection, and coastal management.

Cotton Production

As technology expands and evolves, one-dimensional, graphical user interface (GUI) design becomes increasingly limiting and simplistic. Designers must meet the challenge of developing new and creative interfaces that adapt to meet human needs and technological trends. HCI Beyond the GUI provides designers with this know how by exploring new ways to reach users that involve all of the human senses. Dr. Kortum gathers contributions from leading human factors designers to present a single reference for professionals, researchers, and students. Explores the human factors involved in the design and implementation of the nontraditional interfaces, detailing design strategies, testing methodologies, and implementation techniques Provides an invaluable resource for practitioners who design interfaces for children, gamers and users with accessibility needs Offers extensive case studies, examples and design guidelines

Guide for the Care and Use of Laboratory Animals

Root disease epidemics, because much of the activity takes place in soil and out of sight, pose special challenges to growers who seek to manage them and to scientists who study them. All relevant topics of root disease epidemics and their management are presented: The critical aspects of specific disease components including inoculum, host roots, mycorrhiza and the soil environment are explored. Challenges of disease assessment and the temporal and spatial aspects of epidemic development are considered, and approaches to root disease management including host resistance, chemical, biological and cultural management are discussed in detail. The book fulfills the needs of researchers, teachers, and practitioners of plant pathology.

Understanding Risk

Understanding Risk addresses a central dilemma of risk decisionmaking in a democracy: detailed scientific and technical information is essential for making decisions, but the people who make and live with those decisions are not scientists. The key task of risk characterization is to provide needed and appropriate information to decisionmakers and the public. This important new volume illustrates that making risks understandable to the public involves much

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more than translating scientific knowledge. The volume also draws conclusions about what society should expect from risk characterization and offers clear guidelines and principles for informing the wide variety of risk decisions that face our increasingly technological society. Understanding Risk Frames fundamental questions about what risk characterization means. Reviews traditional definitions and explores new conceptual and practical approaches. Explores how risk characterization should inform decisionmakers and the public. Looks at risk characterization in the context of the entire decisionmaking process.

Understanding Risk discusses how risk characterization has fallen short in many recent controversial decisions. Throughout the text, examples and case studies--such as planning for the long-term ecological health of the Everglades or deciding on the operation of a waste incinerator--bring key concepts to life.

Understanding Risk will be important to anyone involved in risk issues: federal, state, and local policymakers and regulators; risk managers; scientists; industrialists; researchers; and concerned individuals.

Lithium-ion Batteries

This book describes different methods that are relevant to the development and testing of control algorithms for advanced driver assistance systems (ADAS) and automated driving functions (ADF). These control algorithms need to respond safely, reliably and optimally in varying operating conditions. Also, vehicles have to

comply with safety and emission legislation. The text describes how such control algorithms can be developed, tested and verified for use in real-world driving situations. Owing to the complex interaction of vehicles with the environment and different traffic participants, an almost infinite number of possible scenarios and situations that need to be considered may exist. The book explains new methods to address this complexity, with reference to human interaction modelling, various theoretical approaches to the definition of real-world scenarios, and with practically-oriented examples and contributions, to ensure efficient development and testing of ADAS and ADF. Control Strategies for Advanced Driver Assistance Systems and Autonomous Driving Functions is a collection of articles by international experts in the field representing theoretical and application-based points of view. As such, the methods and examples demonstrated in the book will be a valuable source of information for academic and industrial researchers, as well as for automotive companies and suppliers.

The European Landing Obligation

Most books on epidemiology have treated the subject from a statistical, mathematical or computer applicational point of view. However, experiments must be performed first to provide the data for models which in turn can then be proven by further experimentation. This mutual interplay of theory and empirics gives epidemiology its scientific thrust and charm. This book provides a choice of

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methods for varying applications and objectives, covering all important aspects for the designing of experiments. Furthermore, the reader is supplied with solutions to his experimental problems and many "tricks of the trade". The newcomer to the field will also profit by this methodology guide.

Genetic Algorithms in Search, Optimization, and Machine Learning

Covers: an assessment of the current status of the California spotted owl, its biology and habitat use, and forests where the subspecies occurs in the Sierra Nevada and southern California. Suggests the direction of future inventories and research, identifies projected trends in habitat, and offers guidelines and recommendations for management of the California spotted owl. Charts, tables, graphs and color photos.

Water Quality

Health Issues in the Black Community THIRD EDITION "The outstanding editors and authors of Health Issues in the Black Community have placed in clear perspective the challenges and opportunities we face in working to achieve the goal of health equity in America." —David Satcher, MD, PhD, 16th Surgeon General of the United

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States and director, Satcher Health Leadership Institute at Morehouse School of Medicine "Eliminating health disparities must be a central goal of any forward thinking national health policy. Health Issues in the Black Community makes a valuable contribution to a much-needed dialogue by focusing on the challenges of the black community." —Marc Morial, Esq., president, National Urban League

"Health Issues in the Black Community illuminates comprehensively the range of health conditions specifically affecting African Americans, and the health disparities both within the black community and between racial and ethnic groups. Each chapter, whether addressing the health of African Americans by age, gender, type of disease, condition or behavior, is well-detailed and tells an important story. Together, they offer practitioners, consumers, scholars, and policymakers a crucial roadmap to address and change the social determinants of health, reduce disparities, and create more equal treatment for all Americans." —Risa Lavizzo-Mourey, MD, MBA, president, Robert Wood Johnson Foundation

"I recommend Health Issues in the Black Community as a must-read for anyone concerned about the future of the African American community. Health disparities continues to be one of the major issues confronting the black community. This book will help to highlight the issues and keep attention focused on the work to be done." —Elsie Scott, PhD, president of the Congressional Black Caucus Foundation

"This book is the definitive examination of health issues in black America—issues sadly overlooked and downplayed in our culture and society. I congratulate Drs. Braithwaite, Taylor, and Treadwell for their monumental book." —Cornel West,

PhD, professor, Princeton University

Conservation Biology for All

Sewage Treatment Plants: Economic Evaluation of Innovative Technologies for Energy Efficiency aims to show how cost saving can be achieved in sewage treatment plants through implementation of novel, energy efficient technologies or modification of the conventional, energy demanding treatment facilities towards the concept of energy streamlining. The book brings together knowledge from Engineering, Economics, Utility Management and Practice and helps to provide a better understanding of the real economic value with methodologies and practices about innovative energy technologies and policies in sewage treatment plants.

Understanding Wine Chemistry

A sociotechnical investigation of ubiquitous computing as a research enterprise and as a lived reality. Ubiquitous computing (or ubicomp) is the label for a “third wave” of computing technologies. Following the eras of the mainframe computer and the desktop PC, ubicomp is characterized by small and powerful computing devices that are worn, carried, or embedded in the world around us. The ubicomp research agenda originated at Xerox PARC in the late 1980s; these days, some

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form of that vision is a reality for the millions of users of Internet-enabled phones, GPS devices, wireless networks, and "smart" domestic appliances. In *Divining a Digital Future*, computer scientist Paul Dourish and cultural anthropologist Genevieve Bell explore the vision that has driven the ubiquitous computing research program and the contemporary practices that have emerged—both the motivating mythology and the everyday messiness of lived experience. Reflecting the interdisciplinary nature of the authors' collaboration, the book takes seriously the need to understand ubicomp not only technically but also culturally, socially, politically, and economically. Dourish and Bell map the terrain of contemporary ubiquitous computing, in the research community and in daily life; explore dominant narratives in ubicomp around such topics as infrastructure, mobility, privacy, and domesticity; and suggest directions for future investigation, particularly with respect to methodology and conceptual foundations.

Epidemiology and Management of Root Diseases

State-of-the-art, comprehensive synthesis of biogeochemical dynamics and impact of human alterations at major river-coastal interfaces for advanced students and researchers.

Handbook of Humidity Measurement, Volume 1

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"This is the first machine-generated scientific book in chemistry published by Springer Nature. Serving as an innovative prototype defining the current status of the technology, it also provides an overview about the latest trends of lithium-ion batteries research. This book explores future ways of informing researchers and professionals. State-of-the-art computer algorithms were applied to: select relevant sources from Springer Nature publications, arrange these in a topical order, and provide succinct summaries of these articles. The result is a cross-corpora auto-summarization of current texts, organized by means of a similarity-based clustering routine in coherent chapters and sections. This book summarizes more than 150 research articles published from 2016 to 2018 and provides an informative and concise overview of recent research into anode and cathode materials as well as further aspects such as separators, polymer electrolytes, thermal behavior and modelling. With this prototype, Springer Nature has begun an innovative journey to explore the field of machine-generated content and to find answers to the manifold questions on this fascinating topic. Therefore it was intentionally decided not to manually polish or copy-edit any of the texts so as to highlight the current status and remaining boundaries of machine-generated content. Our goal is to initiate a broad discussion, together with the research community and domain experts, about the future opportunities, challenges and limitations of this technology."--Publisher's website.

Physics and Chemistry of Interfaces

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The second edition of Flight Stability and Automatic Control presents an organized introduction to the useful and relevant topics necessary for a flight stability and controls course. Not only is this text presented at the appropriate mathematical level, it also features standard terminology and nomenclature, along with expanded coverage of classical control theory, autopilot designs, and modern control theory. Through the use of extensive examples, problems, and historical notes, author Robert Nelson develops a concise and vital text for aircraft flight stability and control or flight dynamics courses.

Climate Change in the Northwest

Climate Change and Water

This is the second edition of the WHO handbook on the safe, sustainable and affordable management of health-care waste--commonly known as "the Blue Book". The original Blue Book was a comprehensive publication used widely in health-care centers and government agencies to assist in the adoption of national guidance. It also provided support to committed medical directors and managers to make improvements and presented practical information on waste-management techniques for medical staff and waste workers. It has been more than ten years

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since the first edition of the Blue Book. During the intervening period, the requirements on generators of health-care wastes have evolved and new methods have become available. Consequently, WHO recognized that it was an appropriate time to update the original text. The purpose of the second edition is to expand and update the practical information in the original Blue Book. The new Blue Book is designed to continue to be a source of impartial health-care information and guidance on safe waste-management practices. The editors' intention has been to keep the best of the original publication and supplement it with the latest relevant information. The audience for the Blue Book has expanded. Initially, the publication was intended for those directly involved in the creation and handling of health-care wastes: medical staff, health-care facility directors, ancillary health workers, infection-control officers and waste workers. This is no longer the situation. A wider range of people and organizations now have an active interest in the safe management of health-care wastes: regulators, policy-makers, development organizations, voluntary groups, environmental bodies, environmental health practitioners, advisers, researchers and students. They should also find the new Blue Book of benefit to their activities. Chapters 2 and 3 explain the various types of waste produced from health-care facilities, their typical characteristics and the hazards these wastes pose to patients, staff and the general environment. Chapters 4 and 5 introduce the guiding regulatory principles for developing local or national approaches to tackling health-care waste management and transposing these into practical plans for regions and individual health-care facilities. Specific

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methods and technologies are described for waste minimization, segregation and treatment of health-care wastes in Chapters 6, 7 and 8. These chapters introduce the basic features of each technology and the operational and environmental characteristics required to be achieved, followed by information on the potential advantages and disadvantages of each system. To reflect concerns about the difficulties of handling health-care wastewaters, Chapter 9 is an expanded chapter with new guidance on the various sources of wastewater and wastewater treatment options for places not connected to central sewerage systems. Further chapters address issues on economics (Chapter 10), occupational safety (Chapter 11), hygiene and infection control (Chapter 12), and staff training and public awareness (Chapter 13). A wider range of information has been incorporated into this edition of the Blue Book, with the addition of two new chapters on health-care waste management in emergencies (Chapter 14) and an overview of the emerging issues of pandemics, drug-resistant pathogens, climate change and technology advances in medical techniques that will have to be accommodated by health-care waste systems in the future (Chapter 15).

Environmental Contaminants

This book addresses the measurement of environmental contaminants in water, air, and soil. It also presents modifications of and improvements to existing control technologies for remediation of environmental contaminants. It covers improved

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designs of wastewater systems and innovations in designing newer membranes for water treatment. In addition, it includes two separate sections on the modelling and control of different existing and emerging pollutants. It covers major topics such as: pharmaceutical wastes, paper and pulp waste, poly aromatic hydrocarbons, mining dust, bioaerosols, endosulphan, biomass combustion, and landfill design aspects. It also features chapters on environmental exposure and modelling of aerosol deposition within human lungs. The content of this book will be of interest to researchers, professionals, and policymakers whose work involves environmental contaminants and related solutions.

ECMO-Extracorporeal Life Support in Adults

The IFIP series publishes state-of-the-art results in the sciences and technologies of information and communication Proceedings and post-proceedings of referred international conferences in computer science and interdisciplinary fields are featured. These results often precede journal publication and represent the most current research. The principal aim of the IFIP series is to encourage education and the dissemination and exchange of information about all aspects of computing.

Divining a Digital Future

The main scientists working with enhancing fungal, bacterial, virus and insect biological control agents on different targets present the latest progress in overcoming the barrier of insufficient virulence. This multi-disciplinary group review their own work and that of others, and describe the approaches being used, the successes and the barriers yet to be overcome. There is no up-to-date equivalent work describing biocontrol, let alone enhanced biocontrol.

Novel Biotechnologies for Biocontrol Agent Enhancement and Management

Provides a comprehensive overview of the role of cotton in the economy and cotton production around the world This book offers a complete look at the world's largest fiber crop: cotton. It examines its effect on the global economy—its uses and products, harvesting and processing, as well as the major challenges and their solutions, recent trends, and modern technologies involved in worldwide production of cotton. Cotton Production presents recent developments achieved by major cotton producing regions around the world, including China, India, USA, Pakistan, Turkey and Europe, South America, Central Asia, and Australia. In addition to origin and history, it discusses the recent advances in management practices, as well as the agronomic challenges and the solutions in the major cotton producing areas of the world. Keeping a focus on global context, the book

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provides sufficient details regarding the management of cotton crops. These details are not limited to the choice of cultivar, soil management, fertilizer and water management, pest control, cotton harvesting, and processing. The first book to cover all aspects of cotton production in a global context Details the role of cotton in the economy, the uses and products of cotton, and its harvesting and processing Discusses the current state of cotton management practices and issues within and around the world's cotton producing areas Provides insight into the ways to improve cotton productivity in order to keep pace with the growing needs of an increasing population Cotton Production is an essential book for students taking courses in agronomy and cropping systems as well as a reference for agricultural advisors, extension specialists, and professionals throughout the industry.

Free-Space Laser Communications

The first volume of The Handbook of Humidity Measurement focuses on the review of devices based on optical principles of measurement such as optical UV, fluorescence hygrometers, optical and fiber-optic sensors of various types. Numerous methods for monitoring the atmosphere have been developed in recent years, based on measuring the absorption of electromagnetic field in different spectral ranges. These methods, covering the optical (FTIR and Lidar techniques), as well as a microwave and THz ranges are discussed in detail in this volume. The

role of humidity-sensitive materials in optical and fiber-optic sensors is also detailed. This volume describes the reasons for controlling the humidity, features of water and water vapors, and units used for humidity measurement.

Control Strategies for Advanced Driver Assistance Systems and Autonomous Driving Functions

Conservation Biology for All provides cutting-edge but basic conservation science to a global readership. A series of authoritative chapters have been written by the top names in conservation biology with the principal aim of disseminating cutting-edge conservation knowledge as widely as possible. Important topics such as balancing conservation and human needs, climate change, conservation planning, designing and analyzing conservation research, ecosystem services, endangered species management, extinctions, fire, habitat loss, and invasive species are covered. Numerous textboxes describing additional relevant material or case studies are also included. The global biodiversity crisis is now unstoppable; what can be saved in the developing world will require an educated constituency in both the developing and developed world. Habitat loss is particularly acute in developing countries, which is of special concern because it tends to be these locations where the greatest species diversity and richest centres of endemism are to be found. Sadly, developing world conservation scientists have found it difficult

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to access an authoritative textbook, which is particularly ironic since it is these countries where the potential benefits of knowledge application are greatest. There is now an urgent need to educate the next generation of scientists in developing countries, so that they are in a better position to protect their natural resources.

Plant Genetics and Biotechnology in Biodiversity

This is a comprehensive tutorial on the emerging technology of free-space laser communications (FSLC). The book offers an all-inclusive source of information on the basics of FSLC, and a review of state-of-the-art technologies. Coverage includes atmospheric effects for laser propagation and FSLC systems performance and design. Free-Space Laser Communications is a valuable resource for engineers, scientists and students interested in laser communication systems designed for the atmospheric optical channel.

Handbook of Batteries

Extracorporeal membrane oxygenation (ECMO) has been in clinical use for some 40 years, but it is only in the past decade that its application in the treatment of life-threatening circulatory and respiratory failure has truly flourished. This book presents a comprehensive overview of both pathophysiological and practical

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aspects of circulatory and respiratory extracorporeal support. The basics of ECMO, including its history, the “ECMO team”, cannulation, materials, and blood-surface interactions, are first discussed. The various indications for and particular characteristics of circulatory and respiratory extracorporeal life support are then described in detail in the main part of the book. Patient care during ECMO and monitoring of the ECMO patient are also carefully covered, with explanation of the management of technical and clinical complications and transport-related problems. Further topics include long-term therapy options beyond ECMO, such as ventricular assist devices and transplants, outcome, the new frontiers of ECMO for organ procurement and future challenges. The authors are well-known experts in the field whose authoritative contributions and attention to practical aspects will be invaluable for novices and experienced practitioners alike.

Coastal Sediments 2019 - Proceedings Of The 9th International Conference

This book is a printed edition of the Special Issue "Plant Genetics and Biotechnology in Biodiversity" that was published in Diversity

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