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Bioethanol is a versatile transportation fuel and fuel additive that offers excellent performance and reduced air pollution compared to conventional fuels. Its production and use adds little, if any, net release of carbon dioxide to the atmosphere, dramatically reducing the potential for global climate change. Through a sustained research program and an emerging economic competitiveness, the technology for bioethanol production is poised for immediate widespread commercial applications. Written by engineers and scientists providing a technical focus, this handbook provides the up-to-date information needed by managers, engineers, and scientists to evaluate the technology, market, and economics of this fuel, while examining the development of production required to support its commercial use.

The expert, all-inclusive guide on LNG risk based safety Liquefied Natural Gas (LNG) is the condensed form of natural gas achieved by cryogenic chilling. This process reduces gas to a liquid 600 times smaller in volume than it is in its original state, making it suitable for economical global transportation. LNG has been traded internationally and used with a good safety record since the 1960s. However, with some accidents occurring with the storage and liquefaction of LNG, a good understanding of its mechanisms, and its potential ramifications to facilities and to the nearby public, is becoming critically important. With an unbiased eye, this book leans on the expertise of its authors and LNG professionals worldwide to examine these serious safety issues, while addressing many false assumptions surrounding this volatile energy source. LNG Risk Based Safety: Summarizes the findings of the Governmental Accountability Office's (GAO) survey of nineteen LNG experts from across North America and Europe Reviews the history of LNG technology developments Systematically reviews the various consequences from LNG releases— discharge, evaporation, dispersion, fire, and other impacts, and identifies best current approaches to model possible consequence zones Includes discussion of case studies and LNG-related accidents over the past fifty years Covering every aspect of this controversial topic, LNG Risk Based Safety informs the reader with firm conclusions based on highly credible investigation, and offers practical recommendations that researchers and developers can apply to reduce hazards and extend LNG technology.

Agro-industrial wastes are end-products emerging after industrial processing operations and also from their treatment and disposal e.g. solid fruit wastes and sludge. The agro-industrial wastes are often present in multiphase and comprise multicomponent. Nevertheless, these wastes are a goldmine as they possess valuable organic matter which can be diverted towards high value products ranging from polymers to antibiotics to platform chemicals. There have been plenty of books published on bioenergy, enzymes and organic acids, among others. However, this emerging field of biochemical has not yet been covered so far which is an important entity of the biorefinery model from waste biomass and needs to be understood from fundamental, applied as well as commercial perspective which has been laid out in this book.

In recent years the importance of extruded alloys has increased due to the decline in copper extrusion, increased use in structural applications, environmental impact and reduced energy consumption. There have also been huge technical advances. This text provides comprehensive coverage of the metallurgical, mathematical and practical features of the process.

This detailed volume guides readers through strategic planning and user-friendly guidelines in order to select the most suitable CRISPR-Cas system and target sites with high activity and specificity. Methods covering CRISPR gRNA design, CRISPR delivery, CRISPR activity quantification (indel quantification), and examples of applying CRISPR gene editing in human pluripotent stem cells, primary cells, gene therapy, and genetic screening are included. Written for the highly successful Methods in Molecular Biology series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and invaluable, CRISPR Gene Editing: Methods and Protocols will assist undergraduates, graduates, and researchers with detailed guidelines and methods for the vitally important CRISPR gene editing field. Chapter 3 is available open access under a CC BY 4.0 license via link.springer.com.

It was in 1978 that the former FIP (Fédération Internationale de la Précontrainte) published a state-of-art report on Containments for Nuclear Power Plants (NPPs). In 1996 the then FIP Commission 7 Concrete pressure vessels and containments discussed the necessity to up-date this document. After the merger of FIP with CEB (Comité Euro-International du Béton) into fib (fédération internationale du béton - international federation for structural concrete) had taken place in 1998, these activities were continued by a new fib Task-Group 1.3 Containment structures of fib Commission 1 Structures. The decision to update the 1978 report was kept with the intention to give a broad and well illustrated review of existing NPP containments as the most characteristic and complex building of nuclear power plants. Following the description of containments for different reactor systems the state-of-art report includes considerations on safety as the basic purpose of the containment, which underlies all design and construction aspects and necessitates a strict monitoring and inspection program during the whole life of the structure. Regulatory requirements and their evolution as well as recent developments, conceptual and technological, are presented. The report is complemented by two annexes on CD ROM giving some general information (on 160 NPPs built since 19972) and some more detailed data on six typical recent NPP containments. This work has been achieved during the years 1999 and 2000 thanks to the participation of members of fib Commission 1 and particularly of its Task Group 1.3, involving also further invited experts in the nuclear field from many countries all over the world. Comes with 1 CD

The World Drug Report provides a comprehensive overview of recent developments in the world's illicit drug markets. Chapter one of the World Drug Report 2016 provides a global overview of the latest statistics, trends and developments with respect to opiates, cocaine, cannabis and synthetic drugs, ranging from production to trafficking as well as consumption and the health consequences of drug use. Chapter two utilizes the Sustainable Development Goals framework to examine the interplay between the drugs phenomenon and the broader development context.

Brought to you by the creator of numerous bestselling handbooks, the Handbook of Energy Efficiency and Renewable Energy provides a thorough grounding in the analytic techniques and technological developments that underpin renewable energy use and environmental protection. The handbook emphasizes the engineering aspects of energy conservation and renewable energy. Taking a world view, the editors discuss key topics underpinning energy efficiency and renewable energy systems. They provide content at the forefront of the contemporary debate about energy and environmental futures. This is vital information for planning a secure energy future. Practical in approach, the book covers technologies currently available or expected to be ready for implementation in the near future. It sets the stage with a survey of current and future world-wide energy issues, then explores energy policies and incentives for conservation and renewable energy, covers economic assessment methods for conservation and generation technologies, and discusses the environmental costs of various energy generation technologies. The book goes on to examine distributed generation and demand side management procedures and gives a perspective on the efficiencies, economics, and environmental costs of fossil and nuclear technologies. Highlighting energy conservation as the cornerstone of a successful national energy strategy, the book covers energy management strategies for industry and buildings, HVAC controls, co-generation, and advances in specific technologies such as motors, lighting, appliances, and heat pumps. It explores energy storage and generation from renewable sources and underlines the role of infrastructure security and risk analysis in planning future energy transmission and storage systems. These features and more make the Handbook of Energy Efficiency and Renewable Energy the tool for designing the energy sources of the future.

Rice and rice breeding; Development of high-yielding rice varieties; Rice varieties and area; Summary of area estimates.

Service Systems Engineering and ManagementCRC Press

The present book includes a set of selected papers from the fourth "International Conference on Informatics in Control Automation and Robotics" (ICINCO 2009), held in Milan, Italy, from 2 to 5 July 2009. The conference was organized in three simultaneous tracks: "Intelligent Control Systems and Optimization", "Robotics and Automation" and "Systems Modeling, Signal Processing and Control". The book is based on the same structure. ICINCO received 365 paper submissions, not including those of workshops, from 55 countries, in all continents. After a double blind paper review performed by the Program Committee only 34 submissions were accepted as full papers and thus selected for oral presentation, leading to a full paper acceptance ratio of 9%. Additional papers were accepted as short papers and posters. A further refinement was made after the conference, based also on the assessment of presentation quality, so that this book includes the extended and revised versions of the very best papers of ICINCO 2009. Commitment to high quality standards is a major concern of ICINCO that will be maintained in the next editions of this conference, including not only the stringent paper acceptance ratios but also the quality of the program committee, keynote lectures, workshops and logistics.

This study provides economic models of the sustainability and affordability of renewable energy support schemes alongside operational advice on how the regulatory design may need to be modified to minimize the impact on the budget and be affordable to the poor, as well as how to identify and fill the financing gap.

Hansen solubility parameters (HSPs) are used to predict molecular affinities, solubility, and solubility-related phenomena. Revised and updated throughout, Hansen Solubility Parameters: A User's Handbook, Second Edition features the three Hansen solubility parameters for over 1200 chemicals and correlations for over 400 materials including polymers, inorganic salts, and biological materials. To update his groundbreaking handbook with the latest advances and perspectives, Charles M. Hansen has invited five renowned experts to share their work, theories, and practical applications involving HSPs. New discussions include a new statistical thermodynamics approach for confirming existing HSPs and how they fit into other thermodynamic theories for polymer solutions. Entirely new chapters examine the prediction of environmental stress cracking as well as absorption and diffusion in polymers. Highlighting recent findings on interactions with DNA, the treatment of biological materials also includes skin tissue, proteins, natural fibers, and cholesterol. The book also covers the latest applications of HSPs, such as ozone-safe "designer" solvents, protective clothing, drug delivery systems, and petroleum applications. Presenting a comprehensive survey of the theoretical and practical aspects of HSPs, Hansen Solubility Parameters, Second Edition concludes with a detailed discussion on the necessary research, future directions, and potential applications for which HSPs can provide a useful means of prediction in areas such as biological materials, controlled release applications, nanotechnology, and self-assembly.

Voyageurs National Park (VOYA) in northern Minnesota contains significant aquatic resources including 30 lakes and numerous wetlands. This synthesis contains an integrated account of what is known about the aquatic resources of VOYA; compares VOYA resources to those of other areas; and identifies opportunities and needs for future studies and surveys. Surveys and studies in VOYA have identified fifty-four fish species from 16 families 820 vascular plant species and 7 amphibian and 3 reptile species (higher numbers probably occur). Estimates of relative abundance for phyto- and zooplankton vary among VOYA lakes and depths surveyed. The VOYA fish populations and communities have been the most intensively studied. Twenty-eight percent of VOYA wetlands are the result of beaver activity. Mercury contamination and its food-chain bioaccumulation in VOYA are of particular concern. An integrated monitoring plan is needed in VOYA to provide continuous data and information on the complex physical chemical, and biological factors that influence aquatic systems. Resource managers in VOYA will use this information to understand and explain observed changes and to predict the potential for future changes.

Focuses on the effects of natural products and their active components on brain function and neurodegenerative disease prevention. Phytochemicals such as alkaloids, terpenes, flavanoids, isoflavones, saponins etc are known to possess protective activity against many neurological diseases. The molecular mechanisms behind the curative effects rely mainly on the action of phytonutrients on distinct signaling pathways associated with protein folding and neuro-inflammation. The diverse array of bioactive nutrients present in these natural products plays a pivotal role in prevention and cure of various neurodegenerative diseases, disorders, or insults, such as Alzheimer's Disease, Parkinson's Disease, Huntington's Disease, traumatic brain injury, and other neuronal dysfunctions. However, the use of these antioxidants in the management of neurodegenerative conditions has so far been not well understood. This is a comprehensive collection addressing the effects on the brain of natural products and edible items such as resveratrol, curcumin, gingerol, fruits, vegetables, nuts, and marine products.

Abstract: This book presents contemporary information on mutagenesis in plants and its applications in plant breeding and research. The topics are classified into sections focusing on the concepts, historical development and genetic basis of plant mutation breeding (chapters 1-6); mutagens and induced mutagenesis (chapters 7-13); mutation induction and mutant development (chapters 14-23); mutation breeding (chapters 24-34); or mutations in functional genomics (chapters 35-41). This book is an essential reference for those who are conducting research on mutagenesis as an approach to improving or modifying a trait, or achieving basic understanding of a pathway for a trait --.

Interest in the occurrence and behaviour of volatile organic compounds (VOCs) is increasing due to their adverse effects on the environment and human health. It is essential that information is made available on the various aspects of research on VOCs to enable better understanding and control of the various environmental and human health threats. The information in this book will be used to improve communication and understanding of the various approaches. In particular the potential and limitations of the described analytical methods will be essential in defining environmental studies and interpreting the results.

Algal Culturing Techniques is a comprehensive reference on all aspects of the isolation and cultivation of marine and freshwater algae, including seaweeds. It is divided into seven parts that cover history, media preparation, isolation and purification techniques, mass culturing techniques, cell counting and growth measurement techniques, and reviews on topics and applications of algal culture techniques for environmental investigations. Algal Culturing Techniques was developed to serve as both a new textbook and key reference for phycologists and others studying aquatic systems, aquaculture and environmental sciences. Students of algal ecology, marine botany, marine phycology, and microbial ecology will enjoy the hands-on methodology for culturing a variety of algae from fresh and marine waters. Researchers in industry, such as aquaculture, pharmaceutical, foodstuffs, and biotechnology companies will find an authoritative and comprehensive reference. * Sponsored by the Phycological Society of America * Features color photographs and illustrations throughout * Describes culturing methods ranging from the test tube to outdoor ponds and coastal seaweed farms * Details isolation techniques ranging from traditional micropipette to automated flow cytometric methods * Includes purification, growth, maintenance, and cryopreservation techniques * Highlights methods for estimating algal populations, growth rates, isolating and measuring algal pigments, and detecting and culturing algal viruses * Features a comprehensive appendix of nearly 50 algal culture medium recipes * Includes a glossary of phycological terms

The contents of this volume are based upon presentations made to the Second European Symposium on Radiopharmacy and Radiopharmaceuticals which was held in St. Catharine's College Cambridge in March 1985. This meeting was organized by the Radiopharmacy Group of the British Nuclear Medicine Society under the auspices of the European Joint Committee on Radio pharmaceuticals of the ENMS / SNME. The Joint Committee acknowledges the special effort which was made by the local organizers to prepare this meeting the quality of which is undoubtedly reflected in the proceedings. The wide ranging aspects of Radiopharmacy are reflected in this volume which not only deals with specialized topics, such as aerosols and biodistribution studies, but which also deals with the professional aspects of Radiopharmacy Practice. We are of the opinion that this book complements earlier publications to give an ongoing picture of the practice of Radiopharmacy and the state of the art in Europe. As well as acknowledging the contribution of the British Radiopharmacists I would also mention the support of my co chairman Prof. Dr M.G. Woldring, the members of the Joint Committee and last but not least Mrs. M. Busker, who prepared the camera ready copy. P.H. Cox Co-ordinating Chairman European Joint Committee on Radiopharmaceuticals Rotterdam XI

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Finishing this book is giving me a mixture of relief, satisfaction and frustration. Relief, for the completion of a project that has taken too many of my evenings and weekends and that, in the last several months, has become almost an obsession. Satisfaction, for the optimistic feeling that this book, in spite of its many shortcomings and imbalances, will be of some help to the air pollution scientific community. Frustration, for the impossibility of incorporating newly available material that would require another major review of several key chapters - an effort that is currently beyond my energies but not beyond my desires. The first canovaccio of this book came out in 1980 when I was invited by Computational Mechanics in the United Kingdom to give my first Air Pollution Modeling course. The course material, in the form of transparencies, expanded, year after year, thus providing a growing working basis. In 1985, the ECC Joint Research Center in Ispra, Italy, asked me to prepare a critical survey of mathematical models of atmospheric pollution, transport and deposition. This support gave me the opportunity to prepare a sort of "first draft" of the book, which I expanded in the following years.

As ecology becomes the new engineering, the projection of landscape as infrastructure—the contemporary alignment of the disciplines of landscape architecture, civil engineering, and urban planning—has become pressing. Predominant challenges facing urban regions and territories today—including shifting climates, material flows, and population mobilities, are addressed and strategized here. Responding to the under-performance of master planning and over-exertion of technological systems at the end of twentieth century, this book argues for the strategic design of "infrastructural ecologies," describing a synthetic landscape of living, biophysical systems that operate as urban infrastructures to shape and direct the future of urban economies and cultures into the 21st century. Pierre Bélanger is Associate Professor of Landscape Architecture and Co-Director of the Master in Design Studies Program at Harvard University's Graduate School of Design. As part of the Department of Landscape Architecture and the Advanced Studies Program, Bélanger teaches and coordinates graduate courses on the convergence of ecology, infrastructure and urbanism in the interrelated fields of design, planning and engineering. Dr. Bélanger is author of the 35th edition of the Pamphlet Architecture Series from Princeton Architectural Press, GOING LIVE: from States to Systems (pa35.net), co-editor with Jennifer Sigler of the 39th issue of Harvard Design Magazine, Wet Matter, and co-author of the forthcoming volume ECOLOGIES OF POWER: Mapping Military Geographies & Logistical Landscapes of the U.S. Department of Defense. As a landscape architect and urbanist, he is the recipient of the 2008 Canada Prix de Rome in Architecture and the Curator for the Canada Pavilion and Canadian Exhibition, "EXTRACTION," at the 2016 Venice Architecture Biennale (extraction.ca).

This book features extensive coverage of all Distributed Energy Generation technologies, highlighting the technical, environmental and economic aspects of distributed resource integration, such as line loss reduction, protection, control, storage, power electronics, reliability improvement, and voltage profile optimization. It explains how electric power system planners, developers, operators, designers, regulators and policy makers can derive many benefits with increased penetration of distributed generation units into smart distribution networks. It further demonstrates how to best realize these benefits via skillful integration of distributed energy sources, based upon an understanding of the characteristics of loads and network configuration.

With an annual growth rate of over 35%, wind is the fastest growing energy source in the world today. As a result of intensive research and developmental efforts, the technology of generating energy from wind has significantly changed during the past five years. The book brings together all the latest aspects of wind energy conversion technology - right from the wind resource analysis to grid integration of the wind generated electricity. The chapters are contributed by academic and industrial experts having vast experience in these areas. Each chapter begins with an introduction explaining the current status of the technology and proceeds further to the advanced level to cater for the needs of readers from different subject backgrounds. Extensive bibliography/references appended to each chapter give further guidance to the interested readers.

This is a major revision, updating, and expansion of the leading single-source volume on pediatric sedation outside of the operating room. Edited and written by an international roster of outstanding experts, it is the only book aimed at the broad range of specialists who deliver pediatric sedation in the non-OR setting. The Second Edition features a significant expansion of contributions from international leaders and individual new chapters on pre-sedation assessment; sedatives' short- and long-term effects on neurocognition; non-pharmacologic

distractions; Michael Jackson's death and medical ethics; the role of simulation in safety and training; and palliative sedation in terminally ill children. The specialty-specific chapters continue to be geared toward all sedation providers, regardless of where they practice and patient safety is again emphasized. Fundamental chapters provide in-depth reviews of topics which include, among others, physiology and pharmacology. The book presents the latest guidelines across the specialties, both in the United States and abroad and noteworthy, ongoing research endeavors. From reviews of the First Edition: "This meritorious volume is a splendid collection of materials from highly experienced authors...I will make extensive use of this reference as the academic medical center in which I work continues to build sedation practices and assess credentialing/privileging aspects for professionals of all fields." —Joseph R. Tobin, MD in *Journal of the American Medical Association*. "Brings together sedation practice from a broad range of specialties into one well-written pediatric text...I will certainly be using this book as a reference text in the future." — *Pediatric Anesthesia*. "The first [text] directed at all specialists that treat children who require some sedation...also recognizes the contributions to pediatric sedation of many international societies and governmental organizations...It should be on the shelves of all office-based practices." —*Journal of Neurosurgical Anesthesiology*. "With the ever-increasing opportunities to perform various investigations and therapeutic procedures, combined with increasing demands and expectations from children and their parents, the need and demand for safe and effective sedation of paediatric patients outside the operating room is increasing. Against this background, the second edition of 'Pediatric Sedation Outside the Operating Room' is a very timely addition to the anaesthesia literature."—*British Journal of Anesthesia*

Based on the successful *Baby Owner's Manual*, *The Baby Owner's Maintenance Log* presents a refreshing alternative to traditional sugar-sweet baby journals. Hip parents can record all major milestones and measurements in these pages, including the arrival of the unit, fuel preferences and speech activation. Spiral binding, hilarious illustrations and a bound-in envelope for keepsakes make this guided journal a great shower gift.

You know what happens when bad boys get what they wish for? Everything. . . New York Times Bestselling Author Lori Foster *Playing Doctor* Attitude makes a huge difference in bed. It could be Axel Dean's motto. The sexy physician likes his women with sensual moxie, and Libby Preston definitely seems to fit that bill. There's that naughty grin. That hot bod. Her eager kisses and cheeky insults. Her. . .admitted virginity. Whoa. Okay, cue cold shower. Axel may not be an honorable man, but he has his limits. Except Libby won't take no for an answer. She's determined to have someone show her what she's been missing, and suddenly, Axel can't bear to think of Libby playing doctor with anyone else. . . USA Today Bestselling Author Erin McCarthy *The Lady of the Lake* Pro baseball player Dylan Diaz is pretty sure he's going to hell. When you rescue a drowning woman from a lake your first thought should be, "Are you okay?" not, "Can I make mad, passionate love to you?" But the minute sputtering kindergarten teacher Violet Caruthers is on Dylan's boat, that's all he can think about. Maybe it's the potent combo of a nun's personality inside a stripper's body. Maybe it's the way she drives him crazy with desire and laughter. Or maybe, Dylan's finally found what's been missing in his life, and he's not about to let go. . .

Recipient of the 2019 IISE Institute of Industrial and Systems Engineers Joint Publishers Book-of-the-Year Award This is a comprehensive textbook on service systems engineering and management. It emphasizes the use of engineering principles to the design and operation of service enterprises. Service systems engineering relies on mathematical models and methods to solve problems in the service industries. This textbook covers state-of-the-art concepts, models and solution methods important in the design, control, operations and management of service enterprises. *Service Systems Engineering and Management* begins with a basic overview of service industries and their importance in today's economy. Special challenges in managing services, namely, perishability, intangibility, proximity and simultaneity are discussed. Quality of service metrics and methods for measuring them are then discussed. Evaluating the design and operation of service systems frequently involves the conflicting criteria of cost and customer service. This textbook presents two approaches to evaluate the performance of service systems – Multiple Criteria Decision Making and Data Envelopment Analysis. The textbook then discusses several topics in service systems engineering and management – supply chain optimization, warehousing and distribution, modern portfolio theory, revenue management, retail engineering, health systems engineering and financial services. Features: Stresses quantitative models and methods in service systems engineering and management Includes chapters on design and evaluation of service systems, supply chain engineering, warehousing and distribution, financial engineering, healthcare systems, retail engineering and revenue management Bridges theory and practice Contains end-of-chapter problems, case studies, illustrative examples, and real-world applications *Service Systems Engineering and Management* is primarily addressed to those who are interested in learning how to apply operations research models and methods for managing service enterprises. This textbook is well suited for industrial engineering students interested in service systems applications and MBA students in elective courses in operations management, logistics and supply chain management that emphasize quantitative analysis. This book contains selected papers presented during the bi-annual World Renewable Energy Network's Med Green Forum aimed at the international community as well as Mediterranean countries. This forum highlights the importance of growing renewable energy applications in two main sectors: Electricity Generation and the Sustainable Building Sector. In-depth chapters highlight the most current research and technological breakthroughs, covering a broad range of renewable energy technologies and applications in all sectors – for electricity production, heating and cooling, agricultural applications, water desalination, industrial applications and for the transport sectors.

Handbook of Microalgal Culture is truly a landmark publication, drawing on some 50 years of worldwide experience in microalgal mass culture. This important book comprises comprehensive reviews of the current available information on microalgal culture, written by 40 contributing authors from around the globe. The book is divided into four parts, with Part I detailing biological and environmental aspects of microalgae with reference to microalgal biotechnology and Part II looking in depth at major theories and techniques of mass cultivation. Part III comprises chapters on the economic applications of microalgae, including coverage of industrial production, the use of microalgae in human and animal nutrition and in aquaculture, in nitrogen fixation, hydrogen and methane production, and in bioremediation of polluted water. Finally, Part IV looks at new frontiers and includes chapters on genetic engineering, microalgae as platforms for recombinant proteins, bioactive chemicals, heterotrophic production, microalgae as gene-delivery systems for expressing mosquito-cidal toxins and the enhancement of marine productivity for climate stabilization and food security. *Handbook of Microalgal Culture* is an essential purchase for all phycologists and also those researching aquatic systems, aquaculture and plant sciences. There is also much of great use to researchers and those involved in product formulation within pharmaceutical, nutrition and food companies. Libraries in all universities and research establishments teaching and researching in chemistry, biological and pharmaceutical sciences, food sciences and nutrition, and aquaculture will need copies of this book on their shelves. Amos Richmond is at the Blaustein Institute for Desert Research, Ben-Gurion University of the Negev, Israel.

The assessment of young children's development and learning has recently taken on new importance. Private and government organizations are developing programs to enhance the school readiness of all young children, especially children from economically disadvantaged homes and communities and children with special needs. Well-planned and effective assessment can inform teaching and program improvement, and contribute to better outcomes for children. This book affirms that assessments can make crucial contributions to the improvement of children's well-being, but only if they are well designed, implemented effectively,

developed in the context of systematic planning, and are interpreted and used appropriately. Otherwise, assessment of children and programs can have negative consequences for both. The value of assessments therefore requires fundamental attention to their purpose and the design of the larger systems in which they are used. Early Childhood Assessment addresses these issues by identifying the important outcomes for children from birth to age 5 and the quality and purposes of different techniques and instruments for developmental assessments.

If you can build websites with CSS and JavaScript, this book takes you to the next level—creating dynamic, database-driven websites with PHP and MySQL. Learn how to build a database, manage your content, and interact with users. With step-by-step tutorials, this completely revised edition gets you started with expanded coverage of the basics and takes you deeper into the world of server-side programming. The important stuff you need to know: Get up to speed quickly. Learn how to install PHP and MySQL, and get them running on both your computer and a remote server. Gain new techniques. Take advantage of the all-new chapter on integrating PHP with HTML web pages. Manage your content. Use the file system to access user data, including images and other binary files. Make it dynamic. Create pages that change with each new viewing. Build a good database. Use MySQL to store user information and other data. Keep your site working. Master the tools for fixing things that go wrong. Control operations. Create an administrative interface to oversee your site.

This fourth edition of the anthrax guidelines encompasses a systematic review of the extensive new scientific literature and relevant publications up to end 2007 including all the new information that emerged in the 3-4 years after the anthrax letter events. This updated edition provides information on the disease and its importance, its etiology and ecology, and offers guidance on the detection, diagnostic, epidemiology, disinfection and decontamination, treatment and prophylaxis procedures, as well as control and surveillance processes for anthrax in humans and animals. With two rounds of a rigorous peer-review process, it is a relevant source of information for the management of anthrax in humans and animals.

Rice ecosystems; Nutrient management; Mineral deficiencies; Mineral toxicities; Tools and information.

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