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## KEY=MANUAL - BLAZE SAVANAH

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## GOVERNMENT REPORTS ANNOUNCEMENTS & INDEX

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## GOVERNMENT REPORTS ANNUAL INDEX

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## GOVERNMENT REPORTS ANNUAL INDEX: KEYWORD A-L

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## IN VITRO DIGESTIBILITY IN ANIMAL NUTRITIONAL STUDIES

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**MDPI** This book addresses various aspects of in vitro digestibility: • Application of meta-analyses and machine learning methods to predict methane production; • Methane production of sainfoin and alfalfa; • In vitro evaluation of different dietary methane mitigation strategies; • Rumen methanogenesis, rumen fermentation, and microbial community response; • The role of condensed tannins in the in vitro rumen fermentation kinetics; • Fermentation pattern of several carbohydrate sources; • Additive, synergistic, or antagonistic effects of plant extracts; • In vitro rumen degradation and fermentation characteristics of silage and hay; • In vitro digestibility, in situ degradability, and rumen fermentation of camelina co-products; • Ruminal fermentation parameters and microbial matters to odd- and branched-chain fatty acids; • Comparison of fecal versus rumen inocula for the estimation of NDF digestibility; • Rumen inoculum collected from cows at slaughter or from a continuous fermenter; • Seaweeds as ingredients of ruminant diets; • Rumen in vitro fermentation and in situ degradation kinetics of forage Brassica crops; • In vitro digestibility and rumen degradability of vetch varieties; • Intestinal digestibility in vitro of Vicia sativa varieties; • Ruminal in vitro protein degradation and apparent digestibility of Pisum sativum; • In vitro digestibility studies using equine fecal inoculum; • Effects of gas production recording system and pig fecal inoculum volume on kinetics; • In vitro methods of assessing protein quality for poultry; and • In vitro techniques using the Daisyll incubator.

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## MONTHLY CATALOG OF UNITED STATES GOVERNMENT PUBLICATIONS

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## MONTHLY CATALOGUE, UNITED STATES PUBLIC DOCUMENTS

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## CANADIANA

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## MICROPLASTIC IN THE ENVIRONMENT: PATTERN AND PROCESS

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**Springer Nature** This open access book examines global plastic pollution, an issue that has become a critical societal challenge with implications for environmental and public health. This volume provides a comprehensive, holistic analysis on the plastic cycle and its subsequent effects on biota, food security, and human exposure. Importantly, global environmental change and its associated, systems-level processes, including atmospheric deposition, ecosystem complexity, UV exposure, wind patterns, water stratification, ocean circulation, etc., are all important direct and indirect factors governing the fate, transport and biotic and abiotic processing of plastic particles across ecosystem types. Furthermore, the distribution of plastic in the ocean is not independent of terrestrial ecosystem dynamics, since much of the plastic in marine ecosystems originates from land and should therefore be evaluated in the context of the larger plastic cycle. Changes in species size, distribution, habitat, and food web complexity, due to global environmental change, will likely alter trophic transfer dynamics and the ecological effects of nano- and microplastics. The fate and transport dynamics of plastic particles are influenced by their size, form, shape, polymer type, additives, and overall ecosystem conditions. In addition to the risks that plastics pose to the total environment, the potential impacts on human health and exposure routes, including seafood consumption, and air and drinking water need to be assessed in a comprehensive and quantitative manner. Here I present a holistic and interdisciplinary book volume designed to advance the understanding of plastic cycling in the environment with an emphasis on sources, fate and transport, ecotoxicology, climate change effects, food security, microbiology, sustainability, human exposure and public policy.

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## MEASUREMENT, INSTRUMENTATION, AND SENSORS HANDBOOK

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## SPATIAL, MECHANICAL, THERMAL, AND RADIATION MEASUREMENT

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**CRC Press** The Second Edition of the bestselling Measurement, Instrumentation, and Sensors Handbook brings

together all aspects of the design and implementation of measurement, instrumentation, and sensors. Reflecting the current state of the art, it describes the use of instruments and techniques for performing practical measurements in engineering, physics, chemistry, and the life sciences and discusses processing systems, automatic data acquisition, reduction and analysis, operation characteristics, accuracy, errors, calibrations, and the incorporation of standards for control purposes. Organized according to measurement problem, the Spatial, Mechanical, Thermal, and Radiation Measurement volume of the Second Edition: Contains contributions from field experts, new chapters, and updates to all 96 existing chapters Covers instrumentation and measurement concepts, spatial and mechanical variables, displacement, acoustics, flow and spot velocity, radiation, wireless sensors and instrumentation, and control and human factors A concise and useful reference for engineers, scientists, academic faculty, students, designers, managers, and industry professionals involved in instrumentation and measurement research and development, Measurement, Instrumentation, and Sensors Handbook, Second Edition: Spatial, Mechanical, Thermal, and Radiation Measurement provides readers with a greater understanding of advanced applications.

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## **DISK PLOWS**

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## **COMPUTATIONAL PROTEIN-PROTEIN INTERACTIONS**

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CRC Press Often considered the workhorse of the cellular machinery, proteins are responsible for functions ranging from molecular motors to signaling. The broad recognition of their involvement in all cellular processes has led to focused efforts to predict their functions from sequences, and if available, from their structures. An overview of current research directions, Computational Protein-Protein Interactions examines topics in the prediction of protein-protein interactions, including interference with protein-protein interactions and their design. Explores Computational Approaches to Understanding Protein-Protein Interactions Outlining fundamental and applied aspects of the usefulness of computations when approaching protein-protein interactions, this book incorporates different views of the same biochemical problem from sequence to structure to energetics. It covers protein-protein interaction prediction and dynamics, design, drug design for inhibition, and uses for the prediction of function. The text provides general chapters that overview the topic and also includes advanced material. The chapters detail the complexity of protein interaction studies and discuss potential caveats. Addresses the Next Big Problem in Molecular Biology While it is important to predict protein associations, this is a daunting task. Edited by two experts in the field and containing contributions from those at the forefront of research, the book provides a basic outline of major directions in computational protein-protein interactions research at the heart of functional genomics and crucial for drug discovery. It addresses the next big problem in molecular biology: how to create links between all the pieces of the cell jigsaw puzzle.

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## **CRAP CVS**

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Penguin UK Application for Employment I refer to the recent death of the Technical Manager at your company and hereby apply for the replacement of the deceased manager. Each time I apply for a job, I get a reply that there is no vacancy but in this case I have caught you red-handed and you have no excuse because I even attended the funeral to be sure that he was truly dead and buried before applying. Attached to my letter is a copy of my CV and his death certificate. Crap CVS is a hilarious compilation of the worst job applications imaginable, including overly-honest cover letters, embarrassing typos, mortifying personal revelations, awkward interview questions, misplaced self-confidence, self-aggrandizing gibberish, blatant truth-twisting and, of course, outright lies.

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## **BOOK OF ABSTRACTS OF THE 67TH ANNUAL MEETING OF THE EUROPEAN FEDERATION OF ANIMAL SCIENCE**

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**BELFAST, UK, 29 AUGUST - 1 SEPTEMBER 2016**

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Wageningen Academic Publishers This Book of Abstracts is the main publication of the 67th Annual Meeting of the European Association for Animal Production (EAAP). It contains abstracts of the invited papers and contributed presentations of the sessions of EAAP's nine Commissions: Animal Genetics, Animal Nutrition, Animal Management and Health, Animal Physiology, Cattle Production, Sheep and Goat Production, Pig Production, Horse Production and Livestock Farming Systems.

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## **TELEMEDICINE IN THE ICU**

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Springer This text provides a concise, yet comprehensive overview of telemedicine in the ICU. The first part of the book reviews common issues faced by practitioners and hospital administrators in implementing and managing tele-ICU programs, including the merits of different staffing models, the challenges of building homegrown programs versus contracting for services, and the impact of state laws and payer policies on reimbursement for tele-ICU services. The second part of the book presents the current state of evidence for and against ICU telemedicine, based on clinical trials, before-and-after implementation studies, and observational data. The third part dives deeper into specific use cases for telemedicine in the ICU, including telestroke, pediatric and cardiac intensive care, and early treatment of declining patients with sepsis. Written by experts in the field, Telemedicine in the ICU is a practical guide for intensive care physicians and hospital administrators that provides all the information necessary in building and maintaining a successful tele-ICU program.

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## **TEXTBOOK OF STROKE MEDICINE**

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Cambridge University Press This concise and informative textbook is aimed at trainee doctors beginning work on a stroke unit or residents embarking on their postdoctoral training in stroke care. It has a practical approach covering all important issues of prevention, diagnosis and treatment of cerebrovascular diseases. Chapters on the basics of neuropathology and pathophysiology are followed by reviews of clinical issues, including neuroimaging, clinical assessment, diagnosis and treatment, stroke in the young, and stroke-related dementia. Topics of rising importance are covered in chapters on stroke unit management, monitoring and management of complications including infections, recommendations for thrombolysis, interventions and neurosurgical procedures, and clear and balanced recommendations for secondary prevention. Finally, neuropsychological syndromes are explained and an up-to-date view on neurorehabilitation is presented. The authors are all experts in their field and many of them teach on the European Master's Program on Stroke Medicine, which is supported and endorsed by the European Stroke Organization.

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## **U.S. NAVY COLD WEATHER HANDBOOK FOR SURFACE SHIPS**

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### **BANKING 5.0**

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### **HOW FINTECH WILL CHANGE TRADITIONAL BANKS IN THE 'NEW NORMAL' POST PANDEMIC**

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Springer Nature Bill Gates' quote, "Banking is necessary, but banks are not," showcases the opportunity for financial services digital transformation. The next transition from industry 4.0 to 5.0 will impact all sectors, including banking. It will combine information technology and automation, based on artificial intelligence, person-robot collaboration, and sustainability. It is time to analyze this transformation in banking deeply, so that the sector can adequately change to the 'New Normal' and a wholly modified banking model can be properly embedded in the business. This book presents a conceptual model of banking 5.0, detailing its implementation in processes, platforms, people, and partnerships of financial services organizations companies. The last part of the book is then dedicated to future developments. Of interest to academics, researchers, and professionals in banking, financial technology, and financial services, this book also includes business cases in financial services.

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## **THE SOCIAL BIOLOGY OF MICROBIAL COMMUNITIES**

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### **WORKSHOP SUMMARY**

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National Academies Press Beginning with the germ theory of disease in the 19th century and extending through most of the 20th century, microbes were believed to live their lives as solitary, unicellular, disease-causing organisms. This perception stemmed from the focus of most investigators on organisms that could be grown in the laboratory as cellular monocultures, often dispersed in liquid, and under ambient conditions of temperature, lighting, and humidity. Most such inquiries were designed to identify microbial pathogens by satisfying Koch's postulates.<sup>3</sup> This pathogen-centric approach to the study of microorganisms produced a metaphorical "war" against these microbial invaders waged with antibiotic therapies, while simultaneously obscuring the dynamic relationships that exist among and between host organisms and their associated microorganisms—only a tiny fraction of which act as pathogens. Despite their obvious importance, very little is actually known about the processes and factors that influence the assembly, function, and stability of microbial communities. Gaining this knowledge will require a seismic shift away from the study of individual microbes in isolation to inquiries into the nature of diverse and often complex microbial communities, the forces that shape them, and their relationships with other communities and organisms, including their multicellular hosts. On March 6 and 7, 2012, the Institute of Medicine's (IOM's) Forum on Microbial Threats hosted a public workshop to explore the emerging science of the "social biology" of microbial communities. Workshop presentations and discussions embraced a wide spectrum of topics, experimental systems, and theoretical perspectives representative of the current, multifaceted exploration of the microbial frontier. Participants discussed ecological, evolutionary, and genetic factors contributing to the assembly, function, and stability of microbial communities; how microbial communities adapt and respond to environmental stimuli; theoretical and experimental approaches to advance this nascent field; and potential applications of knowledge gained from the study of microbial communities for the improvement of human, animal, plant, and ecosystem health and toward a deeper understanding of microbial diversity and evolution. The Social Biology of Microbial Communities: Workshop Summary further explains the happenings of the workshop.

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## **GREAT TRACTORS**

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Relates the history of the tractor and shows the changes in design that have resulted in the diesel-powered giants of today.

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## **THE BRITISH JOURNAL OF PHOTOGRAPHY**

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## **NEWNES ELECTRICAL POWER ENGINEER'S HANDBOOK**

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Elsevier The second edition of this popular engineering reference book, previously titles Newnes Electrical Engineer's Handbook, provides a basic understanding of the underlying theory and operation of the major classes of electrical equipment. With coverage including the key principles of electrical engineering and the design and operation of

electrical equipment, the book uses clear descriptions and logical presentation of data to explain electrical power and its applications. Each chapter is written by leading professionals and academics, and many sections conclude with a summary of key standards. The new edition is updated in line with recent advances in EMC, power quality and the structure and operation of power systems, making Newnes Electrical Power Engineer's Handbook an invaluable guide for today's electrical power engineer. · A unique, concise reference book with contributions from eminent professionals in the field · Provides straightforward and practical explanations, plus key information needed by engineers on a day-to-day basis · Includes a summary of key standards at the end of each chapter

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### **FARM IMPLEMENT NEWS**

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### **TRACTORS OF THE WORLD**

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### **OVER 220 OF THE WORLD'S GREATEST TRACTORS**

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Tractors of the World is a comprehensive guide to more than 220 of the best-known tractors produced throughout the world over the last 120 years. It is illustrated with more than 400 color and black-and-white photographs and artwork; cutaway illustrations; and comprehensive specifications give technical and engineering information.

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### **A QUALITY OF LIFE APPROACH TO CAREER DEVELOPMENT**

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University of Toronto Press A highly original text with broad theoretical appeal to several disciplines, A Quality of Life Approach to Career Development also includes exercises and case studies.

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### **A MANUAL OF EGYPTIAN POTTERY, VOLUME 1**

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### **FAYUM A - A LOWER EGYPTIAN CULTURE**

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Ancient Egypt Research Assoc This is the first volume in a four-book set covering all Egyptian pottery, ranging from the earliest (Fayum A) ceramics to pottery made in Egypt today, organised by historical periods. The manuals are quick identification guides as well as starting points for more extensive research. For each period, ceramic types are illustrated with a line drawing, accompanied by a description that includes information on the pot's material, manufacturing techniques, surface treatment and shape. Colour plates of representative ceramic types are included to give the clearest sense of the colour, composition and surface treatment. All four volumes provide an extensive list of suggested readings as well as a bibliography for each period. Introductory chapters in each book discuss the basics of pottery manufacture and analysis. This second edition boasts a new, expanded introduction. The first comprehensive guide to Egyptian pottery, this set will prove valuable to students as well as experienced field archaeologists. The volumes come in paperback and spiral-bound versions. The spiral bound versions, with hard laminated covers and tabs, are designed especially for the field and lab.

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### **DIGITAL SUPPLY CHAINS AND THE HUMAN FACTOR**

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Springer Nature This book covers topics such as digitalization of production, operations, logistics and supply chains leading to new requirements for human capabilities and collaboration. The content is relevant for research as well as industry as digitalization is shaping all value chain processes anew. A special focus is directed towards an interdisciplinary perspective, including management science, economics, sociology, work science, computer science and psychology. In order to foster the dialogue between business practice and academics as well as university teaching and research, this contributed book is addressing academic as well as professional business views on digitalization.

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### **LIFE CYCLE MANAGEMENT**

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Springer This book provides insight into the Life Cycle Management (LCM) concept and the progress in its implementation. LCM is a management concept applied in industrial and service sectors to improve products and services, while enhancing the overall sustainability performance of business and its value chains. In this regard, LCM is an opportunity to differentiate through sustainability performance on the market place, working with all departments of a company such as research and development, procurement and marketing, and to enhance the collaboration with stakeholders along a company's value chain. LCM is used beyond short-term business success and aims at long-term achievements by minimizing environmental and socio-economic burden, while maximizing economic and social value.

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### **BIODIVERSITY AND BIOMEDICINE**

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### **OUR FUTURE**

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Academic Press Biodiversity and Biomedicine: Our Future provides a new outlook on Earth's animal, plant, and fungi species as vital sources for human health treatments. While there are over 10 million various species on the planet, only 2 million have been discovered and named. This book identifies modern ways to incorporate Earth's species into biomedical practices and emphasizes the need for biodiversity conservation. Written by leading biodiversity and biomedical experts, the book begins with new insights on the benefits of biologically active compounds found in fungi and plants, including a chapter on the use of wild fruits as a treatment option. The book goes on to discuss the roles of animals, such as amphibians and reptiles, and how the threatened presence of these species must be reversed to conserve biodiversity. It also discusses marine organisms, including plants, animals, and microbes, as essential in

contributing to human health. **Biodiversity and Biomedicine: Our Future** is a vital source for researchers and practitioners specializing in biodiversity and conservation studies. Students in natural medicine and biological conservation will also find this useful to learn of the world's most bio-rich communities and the molecular diversity of various species. Presents new developments in documenting and identifying species for biodiversity conservation and ethical considerations for biodiversity research Examines biodiversity as an irreplaceable resource for biomedical breakthroughs using available species for medical research Discusses challenges and opportunities for biodiversity protection and research in biosphere reserves

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### **SPARSE REPRESENTATION OF VISUAL DATA FOR COMPRESSION AND COMPRESSED SENSING**

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Linköping University Electronic Press The ongoing advances in computational photography have introduced a range of new imaging techniques for capturing multidimensional visual data such as light fields, BRDFs, BTFs, and more. A key challenge inherent to such imaging techniques is the large amount of high dimensional visual data that is produced, often requiring GBs, or even TBs, of storage. Moreover, the utilization of these datasets in real time applications poses many difficulties due to the large memory footprint. Furthermore, the acquisition of large-scale visual data is very challenging and expensive in most cases. This thesis makes several contributions with regards to acquisition, compression, and real time rendering of high dimensional visual data in computer graphics and imaging applications. Contributions of this thesis reside on the strong foundation of sparse representations. Numerous applications are presented that utilize sparse representations for compression and compressed sensing of visual data. Specifically, we present a single sensor light field camera design, a compressive rendering method, a real time precomputed photorealistic rendering technique, light field (video) compression and real time rendering, compressive BRDF capture, and more. Another key contribution of this thesis is a general framework for compression and compressed sensing of visual data, regardless of the dimensionality. As a result, any type of discrete visual data with arbitrary dimensionality can be captured, compressed, and rendered in real time. This thesis makes two theoretical contributions. In particular, uniqueness conditions for recovering a sparse signal under an ensemble of multidimensional dictionaries is presented. The theoretical results discussed here are useful for designing efficient capturing devices for multidimensional visual data. Moreover, we derive the probability of successful recovery of a noisy sparse signal using OMP, one of the most widely used algorithms for solving compressed sensing problems.

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### **WHEN BABY BRINGS THE BLUES**

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### **SOLUTIONS FOR POSTPARTUM DEPRESSION**

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John Wiley & Sons A leading expert on postpartum depression offers new mothers an insightful, medically sound guide to recovery A full 20 percent of new moms will be affected by PPD--but the good news is that PPD is very responsive to treatment. This guide, written by psychiatrist and internationally acclaimed PPD specialist Ariel Dalfen, leads women out of the maze of depression, offering medical and psychotherapeutic options, practical lifestyle changes, and an impressive array of resources for further support. Complete with a PPD diagnosis questionnaire, a treatment plan checklist, and a table of medications and side effects, this upbeat guide also includes daily affirmations used by Dr. Dalfen's own patients when recovering from PPD. Dr. Ariel Dalfen (Toronto, ON) is a psychiatrist at Mount Sinai Hospital in Toronto and an acclaimed lecturer and medical researcher in the area of post-partum depression.

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### **TOXICOLOGICAL PROFILE FOR SYNTHETIC VITREOUS FIBERS**

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### **NATURAL FIBER COMPOSITES**

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CRC Press Safely Design, Test, and Construct Products Made of Natural Fiber Composites Natural fibers and their composites carry distinct advantages over industrial fibers. Some advantages—including renewability and availability of raw materials, and lower energy consumption—could help safeguard environmental resources and eventually replace synthetic composites and conventional materials. **Natural Fiber Composites** explores the growing use of natural fibers in composites and covers material properties, treatment and processing, modeling, applications, design, and other vital information on this subject. **Improve the Strength of Manufactured Composites, and Determine the Best Processing Technique** Incorporating independent pieces written by a team of international contributors, this book enables readers to analyze and design structural components using state-of-the-art information and methods. It provides an overview of natural fiber composites, details the superior specific mechanical properties of these materials, and presents development techniques and design case studies that can improve performance and enhance the process. **Natural Fiber Composites** evaluates the value of natural fibers in composite materials, and offers introductory knowledge on natural fiber composites backed by internationally recognized experts in the field.

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### **BELTS AND CHAINS**

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### **BIOMEDICAL NATURAL LANGUAGE PROCESSING**

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John Benjamins Publishing Company **Biomedical Natural Language Processing** is a comprehensive tour through the classic and current work in the field. It discusses all subjects from both a rule-based and a machine learning approach, and also describes each subject from the perspective of both biological science and clinical medicine. The intended audience is readers who already have a background in natural language processing, but a clear introduction makes it accessible to readers from the fields of bioinformatics and computational biology, as well. The book is suitable as a reference, as well as a text for advanced courses in biomedical natural language processing and text mining.

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## **INTEGRATED ASSESSMENT OF WATER RESOURCES AND GLOBAL CHANGE**

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### **A NORTH-SOUTH ANALYSIS**

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Springer Science & Business Media This book presents papers from an international conference, held in Bonn, Germany in February 2005, that dealt with integrated water resources management in industrialized and developing countries. The papers detail such emerging concepts as blue and green water, virtual water, the water footprints of nations, multi-agent modeling, linkages between water and biodiversity, and social learning and adaptive management.

### **THE INVENTION OF TRADITION**

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Cambridge University Press 'The most stimulating history book which has come my way this year ...'History Today

### **SEPTAGE MANAGEMENT**

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### **BIOFUELS**

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### **BIOTECHNOLOGY, CHEMISTRY, AND SUSTAINABLE DEVELOPMENT**

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CRC Press Evaluating a wealth of quantitative data, *Biofuels: Biotechnology, Chemistry, and Sustainable Development* discusses different types of biofuels, the science behind their production, the economics of their introduction to the marketplace, their environmental impacts, and their implications for world agriculture. It broadens the discussion on biofuel

### **THE UK PESTICIDE GUIDE 2017**

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The UK Pesticide Guide 2017 has 7 new active ingredient profiles. Two are confirmed as available in 2017 while 5 are currently only listed as Products also Registered (PARs). The two available are: - cyantraniliprole for insect control in headed brassicas - halauxifen-methyl +/- fluroxypyr for broad-leaved weed control in cereals. The five awaiting confirmation are: - buprofezin for insect control in protected Solonaceae - penhoxamid for weed control in grain maize and winter oilseed rape - Pepino Mosaic Virus for suppression of viral diseases in protected tomatoes - *Pythium oligandrun* M1 for disease control in spring barley, wheat and oilseed rape - Tembotrione for weed control in maize and sweetcorn. In addition, hazard precautions have been upgraded and the roll out of extended buffer zones, for some products, continues with many products re-approved under new MAPP numbers. There are also: - 7 new herbicide profiles - 4 in the main section and 3 as PARs - 8 new fungicide profiles - 6 in the main section and 2 as PARs - 1 new plant growth regulator (PGR) combination and 1 new molluscicide. In the main section of the Guide 8 herbicide profiles (tepraloxym approval expires 30/11/ 2016), 17 fungicides (including prochloraz), 4 insecticides and 1 PGR are no longer included.

### **ISLAM ON YOUTUBE**

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### **ONLINE DEBATES, PROTESTS, AND EXTREMISM**

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Springer This book offers empirical insight into the way Muslims reacted online towards various controversial issues related to Islam. The book examines four cases studies: The Muhammed's cartoons, the burning of the Quran controversies, Fitna and the Innocence of Muslims' films. The issues of online religion, social movements and extremism are discussed, as many of the cases in question created both uproar and unity among many YouTubers. These case studies - in some instances - led to the expression of extremist views by some users, and the volume argues that they helped contribute to the growth of extremism due to the utilization of these events by some terrorist groups in order to recruit new members. In the concluding chapter, social network and sentiment analyses are presented in order to investigate all the collected comments and videos, while a critical discussion of freedom of expression and hate speech is offered, with special regards to the growing online influence of far right groups and their role in on-going YouTube debates.