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"An engaging introduction to an exciting multidisciplinary field where positive impact depends less on technology than on understanding and responding to human motivations, specific information needs, and life constraints." -- Betsy L. Humphreys, former Deputy Director, National Library of Medicine This is a book for people who want to design or promote information technology that helps people be more active and informed participants in their healthcare. Topics include patient portals, wearable devices, apps, websites, smart homes, and online communities focused on health.

Consumer Healthcare Informatics: Enabling Digital Health for Everyone educates readers in the core concepts of consumer health informatics: participatory healthcare; health and e-health literacy; user-centered design; information retrieval and trusted information resources; and the ethical dimensions of health information and communication technologies. It presents the current state of knowledge and recent developments in the field of consumer health informatics. The discussions address tailoring information to key user groups, including patients, consumers, caregivers, parents, children and young adults, and older adults. For example, apps are considered as not just a rich consumer technology with the promise of empowered personal data management and connectedness to community and healthcare providers, but also a domain rife with concerns for effectiveness, privacy, and security, requiring both designer and user to engage in critical thinking around their choices. This book's unique contribution to the field is its focus on the consumer and patient in the context of their everyday life outside the clinical setting. Discussion of tools and technologies is grounded in this perspective and in a context of real-world use and its implications for design. There is an emphasis on empowerment through participatory and people-centered care. This book analyses and quantifies how and where energy and water are consumed by the ceramic sanitary-ware industry and provides solutions as to how to reduce this. The whole production process is mapped, including modelling methods. The book begins by providing an introduction to ceramic sanitary-ware production and types of factories casting technology. It then moves on to discuss the process and energy modelling for the production line, analysis of energy and water consumptions and proposals for improvements. The last chapter presents the practical implementation of the selected modelling configuration. This book is of particular interest to water and energy management professionals within the ceramic industry, but the methods are of interest to those in other production industries as well. Aims to annually publish original scholarly econometrics papers on designated topics with the intention of expanding the use of developed and emerging econometric techniques by disseminating ideas on the theory and practice of econometrics throughout the empirical economic, business and social science literature. This volume contributes to the emotional boom that the field

of applied linguistics is currently witnessing. It includes cutting-edge empirical studies on the interplay between language and emotion that help expand our thinking and understanding on how foreign language learners and users experience, recognise, process and express emotions in different instructional and naturalistic settings. The interdisciplinary focus, methodological innovation, and the study of underrepresented groups and target languages covered in this volume will stimulate debate and inspire both established and young researchers to consider new variables and adopt innovative paradigms in their research designs. Changes in the planet's climate in recent years have led to significant impacts on natural resources and ecosystems. New strategies must be adopted in order to support the protection and continued development of numerous natural resources. Reconsidering the Impact of Climate Change on Global Water Supply, Use, and Management is a pivotal reference source for the latest scholarly material on the relationship between global climate changes and the planet's water ecosystems. Highlighting relevant environmental, social, and economic issues, this book is ideally designed for academics, researchers, policy makers, students, and practitioners interested in the impacts of climate change on global water resources. This book investigates the interplay of language, emotion and gender in a multilingual context and provides rich insights into the complexities of bilingualism and the field of emotion research, as well as the intersection of both. Combining quantitative and qualitative analyses of data, the book examines multilinguals' verbalisation and perception of emotions in their first language and English, their second language (L2). The research looks at crosslinguistic, intercultural and gender-based differences, thereby highlighting the challenges faced by multilinguals in this context and the potential risks of miscommunication and misinterpretation. Results support the call for a change of paradigm towards a holistic approach to multilingualism and emotion research and highlight the similarities and differences in L2 users of English when expressing their emotions in the different languages. The book will appeal to anyone interested in research on emotions in the context of bi-/multilingualism or second language acquisition, as well as those teaching or learning multiple languages. This book presents essential case studies on the integrated modelling of ecosystem services and land-use change in the field of landscape ecology. The case studies were mainly conducted in the Zhangye oasis of the Hexi corridor and the upper reaches of the Heihe river basin, including Loess plateau (for wind power) and the inland waterways of the Yangtze River (for the regulation of extreme events). The book puts forward an integrated modelling method, including human activities, natural processes, land-use change, and ecosystem management, and explores multiple scenarios based on the interests of local managers and their implications for ecosystem services. As the book demonstrates, the integrated modelling method for ecosystem services and land-use change can serve as a valuable tool for gauging the impact of various development scenarios in this study area, and in other regions with similar characteristics. In addition, numerous charts and diagrams are included in each chapter, facilitating the simulation and assessment of specific land-use change impacts on ecosystem services in various study areas. COVID-19 is a severe and complex epidemic ravaging many countries. Traditional Chinese medicine (TCM) has accumulated rich experience and achieved outstanding effects in its struggle against epidemics for thousands of years. As an essential intervention means for prevention and control of COVID-19, TCM boasts significant effects in relieving fever symptoms, slowing down disease progression, preventing disease transformation, reducing hormone dosage, and alleviating complications. Establishing and improving the emergency supply service mode of Chinese medicine in response to public health emergencies, and scientifically managing and allocating Chinese medicine medical resources are conducive to establishing a green channel for the emergency supply of Chinese medicine in response to major public health emergencies. This book focuses on the four oral Chinese patent medicines used in the clinical treatment period based on the Guidelines for the Diagnosis and Treatment of COVID-19 by the National Health Commission and National Administration of Traditional Chinese Medicine of China. This work is not only an important part of the theoretical system of TCM treatment based on syndrome differentiation but also an effective way to promote an even deeper integration of clinical pharmaceutical service and clinical medical

practice. This carefully balanced set of studies and practitioner research projects carried out in various learning contexts around the world highlights cutting-edge research in the use of digital learning technologies in language classrooms and in online learning. Providing an overview of recent developments in the application of educational technology to language learning and teaching, it looks at the experience of researchers and practitioners in both formal and informal (self-study) learning contexts, bringing readers up to date with this rapidly changing field and the latest developments in research, theory, and practice at both classroom and education system levels. The Internet and related technologies have reconfigured every aspect of life, including mental health. Although the negative and positive effects of digital technology on mental health have been debated, all too often this has been done with much passion and few or no supporting data. In *Mental Health in the Digital Age*, Elias Aboujaoude and Vladan Starcevic have edited a book that brings together distinguished experts from around the world to review the evidence relating to this area. The first part of the book addresses threats resulting from the growing reliance on, and misuse of, digital technology; it also looks at how some problematic behaviors and forms of psychopathology have been shaped by this technology. This section reviews problematic Internet and video game use, effects of violent video games on the levels of aggression and of online searches for health-related information on the levels of health anxiety, use of digital technology to harm other people, and promotion of suicide on the Internet. The second part of *Mental Health in the Digital Age* examines the ways in which digital technology has boosted efforts to help people with mental health problems. These include the use of computers, the Internet, and mobile phones to educate and provide information necessary for psychiatric treatment and to produce programs for psychological therapy, as well as use of electronic mental health records to improve care. *Mental Health in the Digital Age* is a unique and timely book because it examines comprehensively an intersection between digital technology and mental health and provides a state-of-the-art, evidence-based, and well-balanced look at the field. The book is a valuable resource and guide to an area often shrouded in controversy, as it is a work of critical thinking that separates the hype from the facts and offers data-driven conclusions. It is of interest particularly to mental health professionals, but also to general audience.

The field of nanoceramics for biomedical applications has experienced important advances in the last five years. These advances are mainly focused in the field of new nanostructured bioceramics able to mimic almost the same biomineralization processes. In addition, there has also been significant advances in nanoceramics as vehicles for targeted drug delivery and gene therapy. Building on the success of *Biomimetic Nanoceramics in Clinical Use*, this second edition has been revised and updated to reflect the recent developments in the field. *Nanoceramics in Clinical Use* includes additional material on bone mineralization processes, new synthesis strategies and applications of nanostructured bioceramics to manufacture 3D macroporous scaffolds and as nanovehicles for targeted drug delivery and gene therapies, to provide the reader with a complete overview of the topic, from fundamental principles to the latest advances. Written by World leading experts in bioceramics, this title will appeal to a broad audience, from academic researchers to those working within the commercial industry. Materials and chemical engineers, chemists, biologists, physicists and those working in medicine, in particular with medical implants, will appreciate the comprehensive coverage of this fast-developing area. This volume brings together experts from a wide range of disciplines to define and describe tabooed words and language and to investigate the reasons and beliefs behind them. In general, taboo is defined as a proscription of behaviour for a specific community, time, and context. In terms of language, taboo applies to instances of language behaviour: the use of certain words in certain contexts. The existence of linguistic taboos and their management lead to the censoring of behaviour and, as a consequence, to language change and development. Chapters in this volume explore the multiple types of tabooed language from a variety of perspectives, such as sociolinguistics, anthropology, philosophy, psychology, historical linguistics, and neurolinguistics, and with reference to fields such as law, publishing, politics, and advertising. Topics covered include impoliteness, swearing, censorship, taboo in deaf communities, translation of tabooed words, and the use of taboo in banter and comedy. *Understanding Formulaic Language: A*

Second Language Acquisition Perspective brings together leading scholars to provide a state-of-the-art, interdisciplinary account of the acquisition, processing, and use of formulaic language. Contributors present three distinct but complementary perspectives on the study of formulaic language - cognitive/psycholinguistic, socio-cultural/pragmatic, and pedagogical - to highlight new work as well as directions for future work. This book is an essential resource for established researchers and graduate students in second language acquisition and pedagogy, corpus and cognitive linguistics, psycholinguistics, sociolinguistics, and pragmatics. This edited volume explores the multifaceted nature of teacher emotions, presenting current research from different approaches and perspectives, focused towards the second language classroom. Twenty three chapters by well-known scholars from the applied linguistics, TESOL and educational psychology fields provide the reader with a holistic picture of teacher emotions, making this collection a significant contribution to the field of second language teaching. Given the emotional nature of teaching, the book explores a number of key issues or dimensions of L2 teachers' emotions that were until now rarely considered. The contributions present the views of a select group of applied linguistic researchers and L2 teacher educators from around the world. This international perspective makes the book essential reading for both L2 teachers and teacher educators.

Volume 19, entitled *Essential Metals in Medicine: Therapeutic Use and Toxicity of Metal Ions in the Clinic* of the series *Metal Ions in Life Sciences* centers on the role of metal ions in clinical medicine. Metal ions are tightly regulated in human health: while essential to life, they can be toxic as well. Following an introductory chapter briefly discussing several important metal-related drugs and diseases and a chapter about drug development, the focus is first on iron: its essentiality for pathogens and humans as well as its toxicity. Chelation therapy is addressed in the context of thalassemia, its relationship to neurodegenerative diseases and also the risks connected with iron administration are pointed out. A subject of intense debate is the essentiality of chromium and vanadium. For example, chromium(III) compounds are taken as a nutritional supplement by athletes and bodybuilders; in contrast, chromate, Cr(VI), is toxic and a carcinogen for humans. The beneficial and toxic effects of manganese, cobalt, and copper on humans are discussed. The need for antiparasitic agents is emphasized as well as the clinical aspects of metal-containing antidotes for cyanide poisoning. In addition to the essential and possibly essential ones, also other metal ions play important roles in human health, causing harm (like the metalloid arsenic, lead or cadmium) or being used in diagnosis or treatment of human diseases, like gadolinium, gallium, lithium, gold, silver or platinum. The impact of this vibrant research area on metals in the clinic is provided in 14 stimulating chapters, written by internationally recognized experts from the Americas, Europe and China, and is manifested by approximately 2000 references, and about 90 illustrations and tables. *Essential Metals in Medicine: Therapeutic Use and Toxicity of Metal Ions in the Clinic* is an essential resource for scientists working in the wide range from pharmacology, enzymology, material sciences, analytical, organic, and inorganic biochemistry all the way through to medicine ... not forgetting that it also provides excellent information for teaching. A robust revision, including many entirely new chapters addressing policy, the latest treatment approaches, and special topics, the Sixth Edition of *The American Psychiatric Association Publishing Textbook of Substance Use Disorder Treatment* offers a comprehensive and compelling review of this ever-evolving field. New sections address important topics that have gained prominence or become the focus of increased research attention since the Fifth Edition was released. For example, substance use and other psychiatric disorders often co-occur, and the resulting dual disorder is frequently associated with greater symptom severity and worse long-term prognosis than either disorder alone. Accordingly, the section on psychiatric comorbidity covers the epidemiology, assessment, and treatment of substance use disorders (SUDs) that co-occur with psychotic, mood, anxiety, eating, attention-deficit/hyperactivity, or trauma-related disorders. The section devoted to special populations has been revamped, and the topics have been thoroughly updated, some now covered by new contributors and others completely new to this edition. SUDs among women (including perinatal issues), adolescents, patients with chronic pain, sexual and gender minority populations, and older adults are addressed in detailed

chapters, as are behavioral addictive disorders and cross-cultural aspects of substance-related and addictive disorders. Finally, the editors have included a section devoted to critically important topics in public health, including the U.S. opioid epidemic, cannabis policy and use, HIV/AIDS and hepatitis C, nicotine and public health, and the prevention of SUDs. New or noteworthy coverage includes the following: A chapter devoted to the legal and practical aspects of addiction in the occupational sphere, designed for clinicians who treat people with SUDs and/or develop workplace testing programs, employee assistance programs, and occupational drug/alcohol policies for these workers. A chapter that surveys the growing literature supporting the use of mindfulness, exercise, and other "mind and body" practices (e.g., yoga, acupuncture, tai chi) as complements or alternatives to standard SUD treatment models. A chapter devoted to hallucinogens, which clarifies their actions, psychoactive effects, historical uses, potential therapeutic benefits, and neural mechanisms, and both identifies their risks and seeks to dispel some of the misconceptions that have continued to surround them. A suite of chapters devoted to cannabis, encompassing a review of its neurobiology and history, a survey of effective treatment approaches and harm-reduction strategies for cannabis use disorder, and a consideration of evolving public policy around cannabis use. A trio of chapters devoted to nicotine and tobacco, encompassing a review of neurobiology, a survey of clinical assessment tools, a summary of the research base for effective treatments for tobacco use disorder, and a consideration of public health policy and interventions regarding tobacco use. Evidence-based, down to earth, and meticulously edited, the new Sixth Edition of The American Psychiatric Association Publishing Textbook of Substance Use Disorder Treatment is an essential resource for clinicians who treat SUDs in a variety of settings -- from examining rooms to emergency departments, and from hospitals to recovery facilities.

If language influences the way we think, does it mean that bilinguals think differently in their respective languages? Interweaving cutting edge research, case studies and personal experience, this book will take you on a quest to unlock the mysteries of the bilingual mind. Selected papers from the International Conference on New Computational Social Science, focusing on the following five aspects: Big data acquisition and analysis, Integration of qualitative research and quantitative research, Sociological Internet experiment research, Application of ABM simulation method in Sociology Research, Research and development of new social computing tools. With the rapid development of information technology, especially sweeping progress in the Internet of things, cloud computing, social networks, social media and big data, social computing, as a data-intensive science, is an emerging field that leverages the capacity to collect and analyze data with an unprecedented breadth, depth and scale. It represents a new computing paradigm and an interdisciplinary field of research and application. A broad comprehension of major topics involved in social computing is important for both scholars and practitioners. This proceedings presents and discusses key concepts and analyzes the state-of-the-art of the field. The conference not only gave insights on social computing, but also affords conduit for future research in the field. Social computing has two distinct trends: One is on the social science issues, such as computational social science, computational sociology, social network analysis, etc; The other is on the use of computational techniques. Finally some new challenges ahead are summarized, including interdisciplinary cooperation and training, big data sharing for scientific data mashups, and privacy protect. International experts examine the effects of urbanization and economic globalization on land use and offer new insights to advance understanding and sustainable practice. Today, global land use is affected by a variety of factors, including urbanization and the growing interconnectedness of economies and markets. This book examines the challenges and opportunities we face in achieving sustainable land use in the twenty-first century. While land resources remain finite, the global population is projected to reach ten billion by the end of the century, bringing issues of ethics and fairness to center stage. Who should decide how land is used? Where does competition for land occur, and why? Moreover, accelerating globalization, increasing demand for animal protein in our diets, the need for new sources of energy, and the global scarcity of land have led to a decoupling of land use and local control, which raises issues of governance. The contributors, from a range of disciplines and countries, present new analytical perspectives and

tools for understanding key issues in global land use. The chapters consider such topics as food production and land use; case studies of urbanization and agriculture in Brazil and China; telecoupling and connections to distant places; emerging institutions of land-use governance; public and private regulation of land use; uniquely urban issues of land use; and future steps to sustainability. Contributors Graeme Auld, Anthony J. Bebbington, Tor A. Benjaminsen, Hilda Blanco, Christopher G. Boone, Saturnino M. Borrás, Jr., Wang Chunyu, Ruth DeFries, Xiangzheng Deng, Hallie Eakin, Jennifer C. Franco, Bradford S. Gentry, Peter J. Gregory, Dagmar Haase, Helmut Haberl, Vanessa Hull, Carol A. Hunsberger, John S. I. Ingram, Elena G. Irwin, Anne-Marie Izac, Suzi Kerr, Jennifer Koch, Tobias Kuemmerle, Eric F. Lambin, Yingzhi Lin, Jianguo Liu, Shuaib Lwasa, Peter J. Marcotullio, Matias E. Margulis, Cheikh Mbow, Ole Mertz, Peter Messerli, Patrick Meyfroidt, Emilio Moran, Harini Nagendra, Stephan Pauleit, Steward T. A. Pickett, Tobias Plieninger, Charles L. Redman, Anette Reenberg, Ximena Rueda, Heike Schroeder, Karen C. Seto, Thomas Sikor, Simon R. Swaffield, Billie Lee Turner II, Caroline Upton, Birka Wicke, Makoto Yokohari, Karl Zimmerer

The proposed book titled as "Bioprospection of Coproducts and Agro-industrial Wastes: A Sustainable Biotechnological Approach", seeks to offer the importance of the recycling, reuse of food residue, byproducts of fruits and agri-wastes to the academic community and industries. In developing countries facing malnutrition and environmental problems, this book would be very useful. The food waste and the residues resulting from this process are now becoming environmental problems. These mainly include leaves, stems, seeds, bark, and roots that have high nutritional value, many times even greater than the part usually consumed. It is a pressing priority to reuse and recycle the waste which is detrimental to the environment. This book would be an essential reading for students, researchers, and people from the food and pharma industry.

Changing Climate and Resource Use Efficiency in Plants reviews the efficiencies for resource use by crop plants under different climatic conditions. This book focuses on the challenges and potential remediation methods for a variety of resource factors. Chapters deal with the effects of different climatic conditions on agriculture, radiation use efficiency under various climatic conditions, the efficiency of water and its impact on harvest production under restricted soil moisture conditions, nitrogen and phosphorus use efficiency, nitrogen use efficiency in different environmental conditions under the influence of climate change, and various aspects of improving phosphorus use efficiency. The book provides guidance for researchers engaged in plant science studies, particularly Plant/Crop Physiology, Agronomy, Plant Breeding and Molecular Breeding. In addition, it provides valuable insights for policymakers, administrators, plant-based companies and agribusiness companies. Explores climatic effects on agriculture through radiation, water, nitrogen, and phosphorus-use efficiency Guides the planning and research of, and recommendations for, fertilizer application for different crops under various climatic conditions Discusses efficiency improvements for plant and molecular breeders seeking to maximize resource use This book brings together linguistic, psycholinguistic and educational perspectives on the phenomenon of cognate vocabulary across languages. It discusses extensive qualitative and quantitative data on Polish-English cognates and their use by learners/users of English to show the importance of cognates in language acquisition and learning.

AEO 2009. The Annual Energy Outlook 2009 presents projections and analysis of US energy supply, demand, and prices through 2030. The projections are based on results from the Energy Information Administration's National Energy Modeling System. The AEO2009 includes the reference case, additional cases examining energy markets, and complete documentation.

Learning a new language offers a unique opportunity to discover other cultures as well as one's own. This discovery process is essential for developing 21st-century intercultural communication skills. To help prepare language teachers for their role as guides during this process, this book uses interdisciplinary research from social sciences and applied linguistics on intercultural communication for designing teaching activities that are readily implemented in the language classroom. Diverse language examples are used throughout the book to illustrate theoretical concepts, making them accessible to language teachers at all skill levels. The chapters introduce various perspectives on culture, intercultural communicative competence, analyzing authentic language data, teaching foreign/second languages

with an intercultural communication orientation, the intercultural journey, the language-culture-identity connection, as well as resolving miscommunication and cultural conflict. While the immediate audience of this book is language teachers, the ultimate beneficiaries are language learners interested in undertaking the intercultural journey. This book constitutes the refereed proceedings of the 5th International Workshop on Multiple Access Communications, MACOM 2012, held in Maynooth, Ireland, in November 2012. The 13 full papers and 5 demo and poster papers presented were carefully reviewed and selected from various submissions. The papers are organized in topical sections on network coding, handling interference and localization techniques at PHY/MAC layers, wireless access networks, and medium access control. Nancy Burns is first named author on previous edition. Kucers' *The Use of Antibiotics* is the definitive, internationally-authored reference, providing everything that the infectious diseases specialist and prescriber needs to know about antimicrobials in this vast and rapidly developing field. The much-expanded Seventh Edition comprises 4800 pages in 3 volumes in order to cover all new and existing therapies, and emerging drugs not yet fully licensed. Concentrating on the treatment of infectious diseases, the content is divided into four sections - antibiotics, anti-fungal drugs, anti-parasitic drugs, and anti-viral drugs - and is highly structured for ease of reference. Each chapter is organized in a consistent format, covering susceptibility, formulations and dosing (adult and pediatric), pharmacokinetics and pharmacodynamics, toxicity, and drug distribution, with detailed discussion regarding clinical uses - a feature unique to this title. Compiled by an expanded team of internationally renowned and respected editors, with expert contributors representing Europe, Africa, Asia, Australia, South America, the US, and Canada, the Seventh Edition adopts a truly global approach. It remains invaluable for anyone using antimicrobial agents in their clinical practice and provides, in a systematic and concise manner, all the information required when prescribing an antimicrobial to treat infection.

The prohibition of the use of force in international law is one of the major achievements of international law in the past century. The attempt to outlaw war as a means of national policy and to establish a system of collective security after both World Wars resulted in the creation of the United Nations Charter, which remains a principal point of reference for the law on the use of force to this day. There have, however, been considerable challenges to the law on the prohibition of the use of force over the past two decades. This Oxford Handbook is a comprehensive and authoritative study of the modern law on the use of force. Over seventy experts in the field offer a detailed analysis, and to an extent a restatement, of the law in this area. The Handbook reviews the status of the law on the use of force, and assesses what changes, if any, have occurred in consequence to recent developments. It offers cutting-edge and up-to-date scholarship on all major aspects of the prohibition of the use of force. The work is set in context by an extensive introductory section, reviewing the history of the subject, recent challenges, and addressing major conceptual approaches. Its second part addresses collective security, in particular the law and practice of the United Nations organs, and of regional organizations and arrangements. It then considers the substance of the prohibition of the use of force, and of the right to self-defence and associated doctrines. The next section is devoted to armed action undertaken on behalf of peoples and populations. This includes self-determination conflicts, resistance to armed occupation, and forcible humanitarian and pro-democratic action. The possibility of the revival of classical, expansive justifications for the use of force is then addressed. This is matched by a final section considering new security challenges and the emerging law in relation to them. Finally, the key arguments developed in the book are tied together in a substantive conclusion. The Handbook will be essential reading for scholars and students of international law and the use of force, and legal advisers to both government and NGOs.

A large-scale investigation on how multilinguals feel about their languages

and use them to communicate emotion. Combining quantitative and qualitative approaches, the author looks at the factors that affect multilinguals' self-perceived competence, attitudes, communicative anxiety, language choice and code-switching. The handbook *Language and Emotion* is intended to give a historical and systematic profile of the area. It will aim to connect contemporary and historical theories, approaches, and applications and to cover eastern and western perspectives of language, communication, and emotion. It will present all relevant aspects of language and emotion and thus contribute significantly to research in the field of linguistics and semiotics of emotion. Health services are often fragmented along organizational lines with limited communication among the public health-related programs or organizations, such as mental health, social services, and public health services. This can result in disjointed decision making without necessary data and knowledge, organizational fragmentation, and disparate knowledge development across the full array of public health needs. When new questions or challenges arise that require collaboration, individual public health practitioners (e.g., surveillance specialists and epidemiologists) often do not have the time and energy to spend on them. *Smart Use of State Public Health Data for Health Disparity Assessment* promotes data integration to aid crosscutting program collaboration. It explains how to maximize the use of various datasets from state health departments for assessing health disparity and for disease prevention. The authors offer practical advice on state public health data use, their strengths and weaknesses, data management insight, and lessons learned. They propose a bottom-up approach for building an integrated public health data warehouse that includes localized public health data. The book is divided into three sections: Section I has seven chapters devoted to knowledge and skill preparations for recognizing disparity issues and integrating and analyzing local public health data. Section II provides a systematic surveillance effort by linking census tract poverty to other health disparity dimensions. Section III provides in-depth studies related to Sections I and II. All data used in the book have been geocoded to the census tract level, making it possible to go more local, even down to the neighborhood level. This book introduces readers to the latest developments regarding pressure injury wounds, diabetic wounds, and negative pressure wound therapy. The first part exclusively deals with wounds from pressure ulcers, describing in detail their prevention, classification, and treatment. In turn, chapters addressing diabetic wounds form the middle part of the book. Here, the authors provide guidance on the medication and treatment (e.g. stem cells, laser) of patients suffering from this disease. The book's last part, which focuses on negative pressure wound therapy, addresses all major aspects of this approach, reflecting the latest research. Illustrated with a wealth of high-quality pictures throughout, the book offers a unique resource for both beginners and experienced plastic surgeons. This must-have handbook offers a comprehensive survey of the field. It reviews the language education policies of Asia, encompassing 30 countries sub-divided by regions, namely East, Southeast, South and Central Asia, and considers the extent to which these are being implemented and with what effect. The most recent iteration of language education policies of each of the countries is described and the impact and potential consequence of any change is critically considered. Each country chapter provides a historical overview of the languages in use and language education policies, examines the ideologies underpinning the language choices, and includes an account of the debates and controversies surrounding language and language education policies, before concluding with some predictions for the future. *Plant Macronutrient Use Efficiency* presents an up-to-date overview of the latest research on the molecular and genetic basis of macronutrient use efficiency (NUE) in plants, and strategies that can be used to improve NUE and nutrient-associated stress tolerance in crop plants. Plant NUE is a measure of how efficiently plants use available nutrients and an understanding of plant NUE has the potential to help improve the use of limited natural resources and to help achieve global food security. This book presents information important for the development of crop plants with improved macro-NUE, a prerequisite to reducing production costs, expanding crop production into noncompetitive marginal lands with low nutrient resources, and for helping to prevent environmental contamination. *Plant Macronutrient Use Efficiency* provides a comprehensive overview of the complex mechanisms regulating macro-NUE in

crop plants, which is required if plant breeders are to develop modern crop varieties that are more resilient to nutrient-associated stress. Identification of genes responsible for macro-NUE and nutrient-related stress tolerance in crop plants will help us to understand the molecular mechanisms associated with the responses of crop plants to nutrient stress. This volume contains both fundamental and advanced information, and critical commentaries useful for those in all fields of plant science research. Provides details of molecular and genetic aspects of NUE in crop plants and model plant systems Presents information on major macronutrients, nutrient sensing and signaling, and the molecular and genomic issues associated with primary and secondary macronutrients Delivers information on how molecular genetic information associated with NUE can be used to develop plant breeding programs Includes contributions from world-leading plant nutrition research groups Das Jahrbuch würdigt die Gewinner des iF product design award 2009, einem der international bedeutendsten Designpreise. Es stellt alle ausgezeichneten Produkte der Kategorien Audio/Video, Telekommunikation, Computer, Licht, Möbel/ Heimtextilien, Haushalt, Freizeit/Lifestyle, Industrie/Gebäude u.v.m. vor. In recent years, libraries have embraced new technologies that organize and store a variety of digital information, such as multimedia databases, digital medical images, and content-based images. Modern Library Technologies for Data Storage, Retrieval, and Use highlights new features of digital library technology in order to educate the database community. By contributing research from case studies on the emerging technology use in libraries, this book is essential for academics and scientists interested in the efforts to understand the applications of data acquisition, retrieval and storage.

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