

M S C E 2015 Practicals

Valorization of Fruit Processing By-products covers the most recent advances in the field of fruit processing by-products following sustainability principles. The urgent need for sustainability within the food industry necessitates research to investigate the handling of by-products with another perspective, e.g. by adapting more profitable options. This book covers the latest developments in this particular direction. It promotes success stories and solutions that ensure the sustainable management of different fruit processing by-products (namely apple, apricot, avocado, *Castanea sativa*, citrus, date, mango, melon, passion fruit, pineapple, pink guava, pomegranate and watermelon), giving emphasis on the recovery of polyphenols, antioxidants and dietary fiber. Written by a team of experts in food processing and engineering, chemistry and food waste, this title is the definite guide for all the involved partners, engineers, professionals and producers active in the field. Explores fruit processing techniques, scale up limitations and economical evaluation for each source of fruit processing by-product Discusses the valorization of by-products derived from different fruits Features the following fruits, including apple, avocado, chestnut, citrus, date, mango, melon and watermelon, passion fruit, pineapple, pink guava and pomegranate

The outcome of DTRS 10 held at Purdue University in 2014.

This handbook provides a concise overview of special education services in countries across the world, using the Article on Education in the United Nations Convention on the Rights of Persons with Disabilities as the analytical frame. • Provides a comprehensive scope and broad coverage that addresses more than 70 countries, regions, and provinces across virtually every part of the world • Offers information on each nation or area on the public education system, private education system, special education system, teacher training requirements, and barriers to inclusive and special education • Presents both information about current practices in special education and promising new trends likely to take hold in the future

Clearance of apoptotic cells is essential for proper development, homeostasis and termination of immune responses in multicellular organisms. Thus, cellular and molecular players taking part in the sequential events of this process are of great interest. Research in the last 20 years has indicated that specific ligands and receptors take part in the attraction of immune cells toward apoptotic targets and in the interactions between apoptotic cells and professional as well as non-professional phagocytes that engulf them. Moreover, phagocytosis of apoptotic cells (efferocytosis) leads to significant phenotypic changes in the engulfing cells suggesting that it is a major fate-determining event for phagocytes. Particularly, efferocytosis has an important impact on the inflammation-resolution axis as well as embryonic development and tissue morphogenesis. Deficiencies in these processes can result in health threats, such as autoimmunity, atherosclerosis, bone loss, obesity, infertility, neurodegeneration, fibrosis and cancer. This eBook brings together 24 original research and review manuscripts that cover various aspects of apoptotic cell removal during normal development and homeostasis as well as in tumorigenesis and regenerative processes following injury.

Publisher's Note: Products purchased from 3rd Party sellers are not guaranteed by the Publisher for quality, authenticity, or access to any online entitlements included with the product. Make the most effective diagnostic and therapeutic decisions quickly and efficiently! Find answers fast with *The 5-Minute Pediatric Consult, 8th Edition* – your go-to resource for the effective medical care of infants, children, and adolescents. Using the proven 5-Minute format, it provides rapid access to information on diagnosis, treatment, medications, follow-up, and associated factors for more than 500 diseases and conditions. *The 5-Minute Pediatric Consult* is designed to help you make quick, accurate decisions every day ... helping you save time and offer every patient the best possible care. Written by experts in the field of pediatrics and associated subspecialties and published by the leader in medical content, *The 5-Minute Pediatric Consult, 8th Edition* includes a 10-Day Free Trial to 5MinuteConsult.com.

Graduate & Professional Programs: An Overview 2015 contains over 2,000 university and college profiles with detailed information on the degrees available, enrollment figures, tuition, financial support, housing, faculty, research affiliations, library facilities, and contact information. This graduate guide enables students to explore program listings by field, geographic area, and institution. Two-page in-depth descriptions, written by each featured institution, give complete details on the graduate study available. Up-to-date appendixes list institution changes since the last edition and abbreviations used in the guide. *Graduate & Professional Programs: An Overview 2015* is the latest in Peterson's 40+ year history of providing prospective students with the most up-to-date graduate school information available.

There are growing questions regarding the safety, quality, risk management, and costs of PCC teams, their training and preparedness, and their implications on the welfare of patients and families. This innovative book, authored by an international authorship, will highlight the best practices in improving survival while paving a roadmap for the expected changes in the next 10 years as healthcare undergoes major transformation and reform. An invited group of experts in the field will participate in this project to provide the timeliest and informative approaches to how to deal with this global health challenge. The book will be indispensable to all who treat pediatric cardiac disease and will provide important information about managing the risk of patients with pediatric and congenital cardiac disease in the three domains of: the analysis of outcomes, the improvement of quality, and the safety of patients.

To deliver the best care to your patients, turn to the #1 annually updated guide in internal medicine and clinical practice. The 2015 Edition is packed with important NEW information! For more than 70 years, professors, students, and clinicians have trusted LANGE for high-quality, current, concise medical information in a convenient, affordable, portable format. Whether for coursework, clerkships, USMLE prep, specialty board review, or patient care, there's a LANGE book that guarantees success. NEW TO THIS EDITION: Latest 2014 American Heart Association/American College of Cardiology guidelines for anticoagulation in atrial fibrillation, and indications for interventions in valvular heart disease Update on the epidemic of opioid-based prescription drug abuse, misuse and overdose, and new section on opioids for chronic, noncancer pain Revised treatment options for *Helicobacter pylori* and chronic hepatitis C Latest hypertension information from 2013 UK National Institute of Health and Clinical Excellence and US Joint National Committee (JNC8) Reports Discussion of which patients benefit from statins, and indications for high vs. moderate intensity statins, based on 2014 AHA/ACC guidelines Scoring tools for assessing the severity of acute pancreatitis Revised psychiatric diagnoses in accordance with the Diagnostic Statistical Manual's 5th edition No other text links practice and research like *CURRENT Medical Diagnosis & Treatment!* Written by clinicians renowned in their fields, this trusted annual text offers the most current insight into symptoms, signs, epidemiology, diagnosis, prevention, and treatment for more than 1,000 diseases and disorders. You'll find concise, evidence-based answers to questions about both hospital and ambulatory problems. The streamlined format of each section in this clinical companion is the fastest, easiest way to keep abreast of the latest diagnostic

advances, prevention strategies, and cost-effective treatments. Here's why CMDT is essential to your clinical practice: Strong emphasis on the practical aspects of clinical diagnosis and patient management throughout the broad fields of internal medicine Full review of other relevant primary care topics, including obstetrics/gynecology, dermatology, neurology, urology, ophthalmology, orthopedics, geriatrics, women's health, and palliative care Hundreds of medication treatment tables, with indexed trade names and updated prices Many helpful diagnostic and treatment algorithms Only text with an annual review of advances in HIV treatment Recent references with PMID numbers for easy online access Many full-color photographs and illustrations Biomass, Biofuels, Biochemicals: Lignin Biorefinery discusses the scientific and technical information relating to the structure and physico-chemical characteristics of lignin. The book covers the different processes (biological, thermal and catalytic routes) available for lignin conversion into specialty chemicals or fuels, activity relationships, and how optimized process parameters help establish the feasible size of the commercial plant in a centralized or decentralized model. In addition, the advantages and limitations of different technologies are discussed, considering local energy, chemicals, biopolymers, drug intermediates, activated carbons, and much more. Includes information on the most advanced and innovative processes for lignin conversion Covers information on biochemical and thermo-chemical processes for lignin valorization Provides information on lignin chemistry and its conversion into high value chemicals and fuels Presents a book designed as a text book, not merely a collection of research articles

Providing an in-depth look at the lives of women and girls in approximately 150 countries, this multivolume reference set offers readers transnational and postcolonial analysis of the many issues that are critical to the survival and success of women and girls.

- Presents a broad postcolonial feminist examination of the lives of women and girls worldwide through essays about the female experience in individual countries
- Provides sidebars that highlight details about individual women and interesting topics that affect women and girls
- Includes primary source documents that offer readers a direct look at important statements, laws, and policies about women and girls

Each year, *Advances in Surgery* reviews the most current practices in general surgery. A distinguished editorial board, headed by Dr. John Cameron, identifies key areas of major progress and controversy and invites preeminent specialists to contribute original articles devoted to these topics. These insightful overviews in general surgery bring concepts to a clinical level and explore their everyday impact on patient care.

A clear, hands-on outline of best practices for infection prevention that directly improve patient outcomes across the healthcare continuum.

Peterson's Graduate Programs in the Humanities, Arts & Social Sciences 2015 contains details on more than 11,000 graduate programs of study across all relevant disciplines-including the arts and architecture, communications and media, psychology and counseling, political science and international affairs, economics, and sociology, anthropology, archaeology, and more. Informative data profiles include facts and figures on accreditation, degree requirements, application deadlines and contact information, financial support, faculty, and student body profiles. Two-page in-depth descriptions, written by featured institutions, offer complete details on specific graduate programs, schools, or departments as well as information on faculty research. Comprehensive directories list programs in this volume, as well as others in the graduate series.

The growing presence of biomass and waste has caused significant changes to the environment. With the ubiquity of these materials, there is an increasing need for proper disposal and reuse of these resources. *Applied Environmental Materials Science for Sustainability* is a key resource on the latest advancements in environmental materials, including the utilization of biomass and waste for advanced materials. Highlighting innovative studies on renewable resources, green technology, and chemical modification, this book is an ideal reference source for academics, researchers, professionals, and graduate students in the field of environmental and materials sciences and technologies.

This issue of *Infectious Disease Clinics of North America*, Guest Edited by Mary Anne Jackson, MD and Angela Myers, MD, is Part II of a 2-part issue devoted to Pediatric Infectious Diseases. Drs. Jackson and Myers have assembled a group of expert authors to review the following topics: Measles 50 Years After Initiation of MMR Vaccine; Pertussis in the Era of New Strains; Promoting Vaccine Confidence; The Changing Epidemiology of Meningococcal Infection; Prevention of Influenza in Children; Rabies - Rare Human Infection, Common Questions; The Expanded Impact of Human Papillomavirus Vaccine; The Challenge of Global Poliomyelitis Eradication; The Eradication of Pediatric Rotavirus Infection; Approach to Immunization for the Traveling Child; and Status of Pneumococcal Infection in the US in the conjugate vaccine era.

The 5-Minute Clinical Consult provides rapid-access information on the diagnosis, treatment, medications, follow-up, and associated conditions of more than 700 medical conditions. Organized alphabetically by diagnosis, this best-selling clinical reference continues to present brief, bulleted points on disease topics in a consistent templated format. The 5-Minute Clinical Consult is presented in two formats: Standard (print only) and Premium (print + 1-year online access). The 5-Minute Clinical Consult website gives customers a complete online decision support tool, with fully searchable diagnoses, lab tests, treatment algorithms, and patient handouts. In 2014, we will improve the site's UI and mobile experiences to emphasize the search functionality and to improve navigability for faster access to the clinical information physicians need.

Graduate & Professional Programs: An Overview 2015 (Grad 1) Peterson's

The 5-Minute Clinical Consult provides rapid-access information on the diagnosis, treatment, medications, follow-up, and associated conditions of more than 700 medical conditions. Organized alphabetically by diagnosis, this best-selling clinical reference continues to present brief, bulleted points on disease topics in a consistent templated format.

Before the 1st edition of the *Textbook of Pediatric Emergency Medicine* published, there was no official pediatric emergency medicine subspecialty in either pediatrics or emergency medicine. This book defined many of the treatments, testing modalities procedural techniques and approaches to care for the ill and injured child. As such, it was written with both the pediatrician and the emergency physician in mind. The *Textbook of Pediatric Emergency Medicine*, has an entirely new editorial board and templated chapters focusing on evidence-based diagnosis and management of pediatric patients in the ED. The book's content has been rewritten to eliminate and eliminate redundancy, creating succinct sections that pertain to patient care in the ED. Templated chapters include: Clinical Outcomes/Goals of Therapy Current Evidence Clinical Considerations Clinical Recognition: Triage Initial Assessment Management/Diagnostic Testing Clinical indications for discharge or admission, including parental instructions References In the ED, nurses and physicians work closely as a paired team, thus this edition reflects that partnership and offers content tailored to it. Online ancillaries, found in the bundled eBook, include Learning Links for nursing considerations and clinical pathways that outline the key steps to take when managing critically ill patients.

Peterson's Graduate Programs in Engineering & Applied Sciences 2015 contains comprehensive profiles of more than 3,850 graduate

programs in all relevant disciplines—including aerospace/aeronautical engineering, agricultural engineering & bioengineering, chemical engineering, civil and environmental engineering, computer science and information technology, electrical and computer engineering, industrial engineering, telecommunications, and more. Two-page in-depth descriptions, written by featured institutions, offer complete details on a specific graduate program, school, or department as well as information on faculty research. Comprehensive directories list programs in this volume, as well as others in the Peterson's graduate series.

Peterson's Nursing Programs 2015 features profiles of more than 3,600 undergraduate, graduate, and postdoctoral programs at hundreds of institutions in the United States and Canada. The only nursing guide published in cooperation with the prestigious American Association of Colleges of Nursing (AACN), which is the only U.S. organization dedicated exclusively to advancing baccalaureate and graduate nursing education. Inside you'll find the latest data on entrance requirements, costs, degrees offered, distance learning options, contact information and much more. Also included are insightful articles and expert advice from nursing school deans and professors along with a thorough analysis of the nursing profession today and what to expect in the future.

Some of the futuristic applications are nanotubes for electrically conductive coatings and to increase the rate of reaction of thermoset resins; organosilane dendrimer coatings; buckyball coatings for machine parts; and metals for conductive coatings in inks. The technology is limited to substantially specialized applications due to the high cost per unit volume needed to reduce the size of the particles and the need to add surface modifiers to prevent the particles from agglomerating. Recent research efforts focus primarily on the functionalization of the particle surface of the nanoparticles to make them more compatible with the coating resin systems, so that easy dispersion, low viscosity, and covalent bonding are provided between the particles and the resins.

NETosis, a form of cell death that manifests by the release of decondensed chromatin to the extracellular space, provides valuable insights into mechanisms and consequences of cellular demise. Because extracellular chromatin can immobilize microbes, the extended nucleohistone network was called a neutrophil extracellular trap (NET), and the process of chromatin release was proposed to serve an innate immune defense function. Extracellular chromatin NETs were initially observed in studies of neutrophils and are most prominent in these types of granulocytes. Subsequent studies showed that other granulocytes and, in a limited way, other cells of the innate immune response may also release nuclear chromatin following certain kinds of stimulation. Variations of NETosis were noted with cells that remain temporarily motile after the release of chromatin. Numerous stimuli for NETosis were discovered, including bacterial breakdown products, inflammatory stimuli, particulate matter, certain crystals, immune complexes and activated thrombocytes. Fundamental explorations into the mechanisms of NETosis observed that neutrophil enzyme activity (PAD4, neutrophil elastase, proteinase 3 and myeloperoxidase) and signal transduction pathways contribute to the regulation of NETosis. Histones in NET chromatin become modified by peptidylarginine deiminase 4 (PAD4) and cleaved at specific sites by proteases, leading to extensive chromatin externalization. In addition, NETs serve for attachment of bactericidal enzymes including myeloperoxidase, leukocyte proteases, and the cathelicidin LL-37. NETs are decorated with proteases and may thus contribute to tissue destruction. However, the attachment of these enzymes to NET-associated supramolecular structures restricts systemic spread of the proteolytic activity. While the benefit of NETs in an infection appears obvious, NETs also participate as key protagonists in various pathologic states. Therefore, it is essential for NETs to be efficiently cleared; otherwise digestive enzymes may gain access to tissues where inflammation takes place. Persistent NET exposure at sites of inflammation may lead to a further complication: NET antigens may provoke acquired immune responses and, over time, could initiate autoimmune reactions, serve as antigen for nuclear autoantibodies and foster DNA immune complex-related inflammation. Neutrophil products and deiminated proteins comprise an important group of autoantigens in musculoskeletal disorders. Aberrant NET synthesis and/or clearance are often associated with inflammatory and autoimmune conditions. Recent evidence also implicates aberrant NET formation in the development of endothelial damage, atherosclerosis and thrombosis. Intravital microscopy provides evidence for conditions that induce NETosis in vivo. Furthermore, NETs can easily be detected in synovial fluid and tissue sections of patients with arthritis and gout. NETosis is thus of interest to researchers who investigate innate immune responses, host-pathogen interactions, chronic inflammatory disorders, cell and vascular biology, biochemistry, and autoimmunity. As we enter the second decade of research on NETosis, it is useful and timely to review the mechanisms and pathways of NET formation, their role in bacterial and fungal defense and their importance as inducers of autoimmune responses.

This book conjoins the latest advances on the use of endoscopy to diagnose, monitor, and treat patients with inflammatory bowel disease. Chapters include the historical use of rigid sigmoidoscopy, non-interventional imaging procedures, and the correlation of pathology and endoscopic visualization. This is the first book to include individual chapters in gastroenterology, colorectal surgery, and IBD texts, the preeminent role of endoscopic imaging in the management of chronic ulcerative colitis, and Crohn's disease. It also includes chapters on capsule endoscopy and balloon and overtube-assisted enteroscopy to define the presence and activity of Crohn's enteritis and additional chapters defining the use of random biopsies versus chromoendoscopy, and computer enhanced imaging to define possible dysplasia development. The book also includes access to online videos, making it the ultimate verbal and visual tool for all medical professionals interested in the advances in the field over the last several decades. Endoscopy in Inflammatory Bowel Disease is a concise text that is of great value to practicing endoscopists, gastroenterologists, general or colorectal surgeons, physicians in training, and all medical professionals caring for patients with inflammatory bowel disease.

Oliver Soames is a Detective Sergeant in the Metropolitan Police Service who is called out to an apparent open-and-shut murder-suicide which turns out to be the doorway into a world he never knew existed. All around us are Strangers people with unique abilities to do things that most of us cannot. Soames finds himself inducted into the Metropolitan Special Circumstances Executive - a secret branch of the police force dedicated to monitoring the Strangers, and ensuring that they do not disrupt the lives of those around them. The only problem is that there appears to be a murderer on the loose - and it is one of them

Intermediate grade readers don't need to be guided as much as they need to be engaged—and authors Julie Wright and Barry Hoonan have solutions for doing just that using small groups. You'll get practical tools, classroom examples, and actionable steps essential for starting, sustaining, and mastering the management of small groups. This book explains the five teacher moves that work together to support students' reading independence through small group learning—kidwatching, pivoting, assessing, curating, and planning—and provides examples to guide you and your students toward success. This resource will empower you with tools to ensure that readers are doing the reading, thinking, and doing—not you.

This book reviews the theoretical concepts, leading-edge techniques and practical tools involved in the latest multi-disciplinary approaches addressing the challenges of big data. Illuminating perspectives from both academia and industry are presented by an international selection of experts in big data science. Topics and features: describes the innovative advances in theoretical aspects of big data, predictive analytics and cloud-based architectures; examines the applications and implementations that utilize big data in cloud architectures; surveys the state of the art in architectural approaches to

the provision of cloud-based big data analytics functions; identifies potential research directions and technologies to facilitate the realization of emerging business models through big data approaches; provides relevant theoretical frameworks, empirical research findings, and numerous case studies; discusses real-world applications of algorithms and techniques to address the challenges of big datasets.

Data for recent years show a turnaround in education: the gross enrollment rate in Sub-Saharan Africa increased from 78 percent in 1998-99 to 84 percent in 2000-01 and to 91 percent in 2002-03, reflecting broad-based growth in access not seen since the 1970s. However, key challenges remain, including (a) enrolling the last 10-15 percent of out-of-school children, including a growing number of HIV/AIDS orphans (one of every 10 African children by 2010); (b) improving learning outcomes; and (c) reducing dropout. Maintaining progress will require continuing the reforms to (a) implement cost-effect.

Offered in print, online, and downloadable formats, this updated edition of *Stroke: Pathophysiology, Diagnosis, and Management* delivers convenient access to the latest research findings and management approaches for cerebrovascular disease. Picking up from where J. P. Mohr and colleagues left off, a new team of editors - Drs. Grotta, Albers, Broderick, Kasner, Lo, Mendelow, Sacco, and Wong - head the sixth edition of this classic text, which is authored by the world's foremost stroke experts. Comprehensive, expert clinical guidance enables you to recognize the clinical manifestations of stroke, use the latest laboratory and imaging studies to arrive at a diagnosis, and generate an effective medical and surgical treatment plan. Abundant full-color CT images and pathology slides help you make efficient and accurate diagnoses. Data from late-breaking endovascular trials equips you with recent findings. Includes comprehensive coverage of advances in molecular biology of cell death; risk factors and prevention; advances in diagnostics and stroke imaging; and therapeutic options, including a thorough review of thrombolytic agents and emerging data for endovascular therapy. Features brand-new chapters on Intracellular Signaling: Mediators and Protective Responses; The Neurovascular Unit and Responses to Ischemia; Mechanisms of Cerebral Hemorrhage; Stroke Related to Surgery and Other Procedures; Cryptogenic Stroke; and Interventions to Improve Recovery after Stroke. Highlights new information on genetic risk factors; primary prevention of stroke; infectious diseases and stroke; recovery interventions such as robotics, brain stimulation, and telerehabilitation; and trial design. Details advances in diagnostic tests, such as ultrasound, computed tomography (including CT angiography and CT perfusion), MRI (including MR perfusion techniques), and angiography. Includes extracted and highlighted evidence levels. Expert Consult eBook version included with print purchase. This enhanced eBook experience allows you to search all of the text, figures, and references on a variety of devices. The content can also be downloaded to tablets and smart phones for offline use. Combat stroke with the most comprehensive and updated multimedia resource on the pathophysiology, diagnosis, and management of stroke from leaders in the field

As the world's population continues to grow and economic conditions continue to improve, more solid and liquid waste is being generated by society. Improper disposal methods can not only lead to harmful environmental impacts but can also negatively affect human health. To prevent further harm to the world's ecosystems, there is a dire need for sustainable waste management practices that will safeguard the environment for future generations. *Waste Management: Concepts, Methodologies, Tools, and Applications* is a vital reference source that examines the management of different types of wastes and provides relevant theoretical frameworks about new waste management technologies for the control of air, water, and soil pollution. Highlighting a range of topics such as contaminant removal, landfill treatment, and recycling, this multi-volume book is ideally designed for environmental engineers, waste authorities, solid waste management companies, landfill operators, legislators, environmentalists, policymakers, government officials, academicians, researchers, and students.

Networks are now embedded in daily life thanks to smaller, faster, inexpensive components that are more powerful and increasingly connected. Parallel to this quantitative explosion of communication networks, technology has become more complex. This development comes with challenges related to management and control, and it has become necessary to manage the service level demands of the client to which the service provider commits. Different approaches to managing one or more service level components in different emerging environments are explored, such as: the Internet of Things, the Cloud, smart grids, e-health, mesh networking, D2D (Device to Device), smart cities and even green networking. This book therefore allows for a better understanding of the important challenges and issues relating to Quality of Service (QoS) management, security and mobility in these types of environment.

Get a quick, expert overview of the ways in which biomarkers can be used to assess and guide the management of cardiovascular disease in the clinical setting. This concise, clinically-focused resource by Dr. Vijay Nambi consolidates today's available information on this rapidly changing topic into one convenient resource, making it an ideal, easy-to-digest reference for cardiology practitioners, fellows, and residents. Covers lab standards and statistical interpretation of biomarkers with a clinical focus. Discusses relevant conditions such as hypertension and diabetes as key markers of injury and prognosis. Includes current information on biomarkers to assess and guide the management of heart failure, acute coronary syndrome, chest pain, shortness of breath, and more. Concludes the book with a timely chapter on how biomarkers may guide cardiologists in the future.

The web is covered with stories regarding the benefits of professional computer certification, and most of them are backed up with salary surveys and the like. While there's certainly nothing wrong with making more money and having better job prospects, there's one benefit of certification that many candidates forget about. Discover everything you need to know by grabbing a copy of this ebook today.

This volume contains the proceedings of the 2015 International Academic Conference on Materials Science and Civil Engineering (MSCE 2015). The conference was a platform for researchers, engineers, academicians and industrial professionals from all over

the world to present their latest research results and development activities on civil engineering, architecture and materials science.

Aktuell steht die Weltbevölkerungen vor vielen entscheidenden Herausforderungen, die es zu bewältigen gilt. Der globale Klimawandel und die zunehmende Ressourcenverknappung sind dabei die bekanntesten Beispiele. Eine zentrale Herausforderung wird bei der Debatte gerne vernachlässigt, herabgewürdigt oder gar vergessen: Nämlich das Ernährungsproblem. Weltweit leiden immer noch ca. 850 Millionen Menschen an chronischer Unterernährung. Das Problem ist dabei kein Phänomen das strikt auf den Afrikanischen Kontinent begrenzt ist. Vielmehr sind viele Staaten im sogenannten »Globalen Süden« von Hunger und Mangelernährung bedroht. Die globale Unterernährung stellt aber nur eine Seite der Medaille dar. Spätestens seit dem Jahr 2008 ist das Problem der weltweiten Überernährung gleichermaßen dramatisch. Nach Schätzungen von diversen Organisationen sind ca. 1,4 Milliarden Menschen übergewichtig und knapp eine halbe Milliarde Menschen fettleibig (BMI > 30). Nimmt man all diese Zahlen zusammen, sind ca. 30% der Weltbevölkerung entweder unter- oder überernährt, was zu starken Belastungen für Gesundheit, Wirtschaft, etc. führt. Die Lösung für beide Probleme ist der Wandel zu nachhaltigen Ernährungssystemen. Der vorliegende Sammelband setzt sich mit diesen Themen auseinander und stellt sie in den Kontext einer neuen »Großen Transformation«.

The seven-volume set of LNCS 11301-11307 constitutes the proceedings of the 25th International Conference on Neural Information Processing, ICONIP 2018, held in Siem Reap, Cambodia, in December 2018. The 401 full papers presented were carefully reviewed and selected from 575 submissions. The papers address the emerging topics of theoretical research, empirical studies, and applications of neural information processing techniques across different domains. The 6th volume, LNCS 11306, is organized in topical sections on time-series analysis; social systems; and image and signal processing.

This book highlights recent findings in industrial, manufacturing and mechanical engineering, and provides an overview of the state of the art in these fields, mainly in Russia and Eastern Europe. A broad range of topics and issues in modern engineering are discussed, including the dynamics of machines and working processes, friction, wear and lubrication in machines, surface transport and technological machines, manufacturing engineering of industrial facilities, materials engineering, metallurgy, control systems and their industrial applications, industrial mechatronics, automation and robotics. The book gathers selected papers presented at the 4th International Conference on Industrial Engineering (ICIE), held in Moscow, Russia in May 2018. The authors are experts in various fields of engineering, and all papers have been carefully reviewed. Given its scope, the book will be of interest to a wide readership, including mechanical and production engineers, lecturers in engineering disciplines, and engineering graduates.

This book presents the latest advances in thermal energy storage development at both the materials and systems level. It covers various fields of application, including domestic, industrial and transport, as well as diverse technologies, such as sensible, latent and thermochemical. The contributors introduce readers to the main performance indicators for thermal storage systems, and discuss thermal energy storage (TES) technologies that can be used to improve the efficiency of energy systems and increase the share of renewable energy sources in numerous fields of application. In addition to the latest advances, the authors discuss the development and characterization of advanced materials and systems for sensible, latent and thermochemical TES, as well as the TES market and practical applications. They also report on and assess the feasibility of uniform characterization protocols and main performance indicators, compared to previous attempts to be found in the literature. The book will help to increase awareness of thermal energy storage technologies in both the academic and industrial sectors, while also providing experts new tools to achieve a uniform approach to thermal energy storage characterization methods. It will also be of interest to all students and researchers seeking an introduction to recent innovations in TES technologies.

Delivers knowledge critical to understanding the multidimensional aspects of working with varied populations with disabilities This is the only introduction to disability book with an interdisciplinary perspective that offers cross-disability and intersectionality coverage, as well as a special emphasis on many unique populations. Comprehensive and reader-friendly, it provides current, evidence-based knowledge on the key principles and practice of disability, while addressing advocacy, the disability rights movement, disability legislation, public policy, and law. Focusing on significant trends, the book provides coverage on persistent and emerging avenues in disability studies that are anticipated to impact a growing proportion of individuals in need of disability services. Woven throughout is an emphasis on psychosocial adaptation to disability supported by case studies and field-based experiential exercises. The text addresses the roles and functions of disability service providers. It also examines ethics in service delivery, credentialing, career paths, cultural competency, poverty, infectious diseases, and family and lifespan perspectives. Reinforcing the need for an interdisciplinary stance, each chapter discusses how varied disciplines work together to provide services addressing the whole person. Active learning is promoted through discussion boxes, self-check questions, and learning exercises. Faculty support includes PowerPoints, model syllabi, test bank, and instructor manual. Purchase includes digital access for use on most mobile devices or computers. Key Features: Provides readers with key knowledge and skills needed to effectively practice in multidisciplinary settings Offers interdisciplinary perspectives on conceptualization, assessment, and intervention across a broad range of disabilities and client populations Underscores the intersectionality of disability to correspond with trends in education focusing on social justice and underrepresented populations Includes research and discussion boxes citing current research activities and excerpts from noted experts in various human service disciplines Promotes active learning with discussion boxes, multiple-choice questions, case studies with discussion questions, and field-based experiential exercises Includes instructor manual, sample syllabi, PowerPoint slides, and test bank Identifies key references at the end of chapters and provides resources for additional information Purchase includes digital access for use on most mobile devices or computers.

Regarding the vast use of chemical components in different human activities, they are susceptible to corrosion because of contact with aggressive environments. Therefore, the use of inhibitors for the control of corrosion of chemical components in corrosive media is an urgent affair. Numerous investigations were carried out and are still being done to study the corrosion inhibition potential of organic compounds. Remarkable inhibition efficiency was achieved by all these compounds particularly some with N, S, and O atoms in their structure. Unfortunately, most of these compounds are not only expensive but also toxic to living beings. Hence, it is essential to mention the importance of natural inhibitors as eco-friendly, readily available, and renewable sources. The main goal of this book is to point out the influence of these components in terms of physical and, in some cases, chemical, processes on different components in aggressive media. Different methods of measuring corrosion, adsorption behavior, mechanism of inhibitors, and some related information is presented in this book. There is a lack of comprehensive and relevant

books on this subject, so we decided to write this book in order to accumulate useful information about the influence of natural inhibitors on metals in corrosive areas and to make it accessible to researchers.

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