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Fossil fuels led the 21st century industrial revolution but caused some critical problems such as exhaustion of resources and global warming. Also, current power plants require too much high cost and long time for establishment and facilities to provide electricity. Thus, developing new power production systems with environmental friendliness and low-cost is critical global needs. There are some emerging energy harvesting technologies such as thermoelectric, piezoelectric, and triboelectric nanogenerators, which have great advantages on eco-friendly low-cost materials, simple fabrication, and various operating sources. Since the introduction of various energy harvesting technologies, many novel designs and applications as power suppliers and physical sensors in the world have been demonstrated based on their unique advantages. In this Special Issue, we would like to address and share basic approaches, new designs, and industrial applications related to thermoelectric, piezoelectric, and triboelectric devices which are on-going in Korea. With this Special Issue, we aim to promote fundamental understanding and to find novel ways to achieve industrial product manufacturing for energy harvesters.

This book constitutes the proceedings of the 23rd Annual Conference on Research in Computational Molecular Biology, RECOMB 2019, held in Washington, DC, USA, in April 2019. The 17 extended and 20 short abstracts presented were carefully reviewed and selected from 175 submissions. The short abstracts are included in the back matter of the volume. The papers report on original research in all areas of computational molecular biology and bioinformatics.

This new edition of the popular handbook is a practical companion for Clerks of Works, Site Inspectors and anyone with the responsibility of managing construction works on site. Clerk of Works and Site Inspector Handbook, 2018 edition the book explains the traditional site inspector/clerk of works role and their liabilities, as well as duties and responsibilities linked to a more contemporary construction setting. It explores the relationship between inspectors, architects and other construction professionals, whilst providing valuable insight into reporting and what to look for, check and test every step of the way. It's an essential reference book for Clerks of Works and Site Inspectors, containing important lessons for newly qualified architects, those who carry out site inspections or act as resident site architects and Part 3 students.

The world is urbanizing at an unprecedented rate. It is estimated that in the near future urban landscapes for another ca. 2.7 billion people will be built on planet Earth, approximately converting land equivalent to the size of South Africa. Such land conversion, coupled with citizen densification, increasing inequalities, shifting diets, and emerging technologies, challenge human well-being and pose ever-increasing demand for resources generated by the Biosphere. This Research Topic concentrates on the various ways urbanization can promote individual well-being (mental, physical, and social health) as well as ecological health (a healthy Biosphere). What kind of affordances for human health promotion can urbanization include? What kinds of affordances for a psychological connection with nature can urbanization include? What kinds of nudges for pro-environmental behavior and consumption (decreasing detrimental consumption behaviors) can be actively designed in urban settings? The Research Topic at hand uses a transactional approach, where an affordance can be understood as a non-deterministic in-situ precondition for a human activity, enabled by relations between abilities of an individual with features of an environment. We encourage a broad definition of the concept of affordances, where 'the environment' must not be restricted to the material biophysical environment alone, but also could be combined with social immaterial features. We see that the transactional approach of this Research Topic posits that meaning arises in relations between humans and their environment, that it will be equally applicable to natural and designed environments, and that it doesn't regard dichotomies like city-contra-nature or social-contra-ecological. Hence, this Research Topic is interested in if the transactional approach can be used as a conceptual tool, not only for promotion of mental, physical, and social health in cities, but simultaneously for unraveling relations at the micro scale in cities which can be used for solutions that also promote a healthy Biosphere.

Materials for Architects and Builders provides a clear and concise introduction to the broad range of materials used within the construction industry and covers the essential details of their manufacture, key physical properties, specification and uses. Understanding the basics of materials is a crucial part of undergraduate and diploma construction or architecture-related courses, and this established textbook helps the reader to do just that with the help of colour photographs and clear diagrams throughout. This new sixth edition has been completely revised and updated to include the latest developments in materials research, new images, appropriate technologies and relevant legislation. The ecological effects of building construction and lifetime use remain an important focus, and this new edition includes a wide range of energy-saving building components.

Handbook of Antiblocking, Release, and Slip Additives, Fourth Edition, is the only comprehensive reference available on the subject of antiblocking, release, and slip additives, which are of high industrial importance. These additives are used to alter the properties and performances of polymers, minimizing adhesion, aiding separation, and improving the efficiency and cost of processing methods. These characteristics make additives an important topic across the spectrum of industry sectors that employ plastics and polymers. Fully updated to include the latest research and additives, the book considers all essential aspects of chemistry, physical properties, influence on properties of final products, formulations, methods of incorporation, analysis, and effects on health and environment. It also provides a complete analysis of existing literature and patents. Processing is discussed in detail, including coverage of types and concentrations, the effect of the additives on the process and product properties, advantages and disadvantages, and examples of formulations. This combination of data and performance analysis makes the book a vital source of information for industry research and development as well as academia. Outlines the essential aspects of chemistry, physical properties, influence on properties of final products, formulations, analysis, and effects on health and environment Reviews the latest literature, related patents, and includes all new information currently available across 18 chemical families Covers processing including the types and concentrations, effects of additives, and examples of formulations

This book presents abiotic stresses that cause crop damage in the range of 6-20%. Understanding the interaction of crop plants to the abiotic stresses caused by heat, cold, drought, flooding, submergence, salinity, acidity, etc., is important to develop resistant crop varieties. Knowledge on the advanced genetic and genomic crop improvement strategies including molecular breeding, transgenics, genomic-assisted breeding, and the recently emerging genome editing for developing resistant varieties in cereal crops is imperative for addressing FPNEE (food, health, nutrition, energy, and environment) security. Whole genome sequencing of these crops followed by genotyping-by-sequencing

has facilitated precise information about the genes conferring resistance useful for gene discovery, allele mining, and shuttle breeding which in turn opened up the scope for 'designing' crop genomes with resistance to abiotic stresses. The nine chapters each dedicated to a cereal crop in this volume are deliberate on different types of abiotic stresses and their effects on and interaction with crop plants; enumerate on the available genetic diversity with regard to abiotic stress resistance among available cultivars; illuminate on the potential gene pools for utilization in interspecific gene transfer; are brief on the classical genetics of stress resistance and traditional breeding for transferring them to their cultivated counterparts; elucidate on the success stories of genetic engineering for developing abiotic stress-resistant crop varieties; discuss on molecular mapping of genes and QTLs underlying stress resistance and their marker-assisted introgression into elite varieties; enunciate on different emerging genomics-aided techniques including genomic selection, allele mining, gene discovery, and gene pyramiding for developing adaptive crop varieties with higher quantity and quality, and also elaborate some case studies on genome editing focusing on specific genes for generating abiotic stress-resistant crops.

Advances in Environmental Pollution Management: Wastewater Impacts and Treatment Technologies has been designed to bind novel knowledge of wastewater pollution-induced impacts on various aspects of our environment. The book also contains novel methods and tools for the monitoring and treatment of produced wastewater.

In its 114th year, Billboard remains the world's premier weekly music publication and a diverse digital, events, brand, content and data licensing platform. Billboard publishes the most trusted charts and offers unrivaled reporting about the latest music, video, gaming, media, digital and mobile entertainment issues and trends.

Topic Editor Susan Richards is an employee of Sanofi and owns stock in the corporation. Topic Editor Bernard Maillere declares economic support from pharmaceutical companies (Novartis, Sanofi, and UCB) in the frame of collaborations aiming to evaluate the recognition by human T cells of therapeutic proteins and antibodies.

Industrial-Organizational (I-O) psychology, the application of science in the workplace to create a better experience for individuals and organizations, has been identified by the Department of Labor as one of the fastest growing occupations in the nation. This volume brings together faculty from top-ranked I-O master's programs to provide best practices and discussions of important topics for the training of master's level I-O psychologists, including areas of career practice, applying to graduate school, applied experiences needed to prepare graduates for the workplace, methods of teaching and considerations for faculty in I-O master's programs, and consulting in organizations as a component of graduate education. This book will be of critical interest to I-O master's faculty, faculty advising undergraduates for graduate school, and students considering careers in I-O psychology.

Human Trafficking: A Comprehensive Exploration into Modern Day Slavery by Wendy Stickle, Shelby Hickman, and Christine White examines the legal, socio-cultural, historical, and political aspects of human trafficking and modern-day slavery. While most texts only cover sex trafficking and labor trafficking, this text takes a more inclusive approach, provide coverage of what is currently known about organ trafficking, child marriage, and child soldiers as well. These topics are explored within the borders of the United States as well as across the world. The reality is that this problem is not limited to one country or, even, one continent. Technology and globalization have made this an international crisis that requires a collaborative and cooperative international response. The goal of this text is to provide an accurate understanding of all forms of human trafficking and current responses to this crime. You can find additional author-created digital resources to accompany this text at <https://sagehtbook.weebly.com/>

Antimicrobial Resistance in Agriculture: Perspective, Policy and Mitigation is a valuable industrial resource that addresses complex, multi-factorial topics regarding farm, wild, companion animals, fish, and how the environment plays an important role in amplification and transmission of resistant bugs into the human food chain. Information of phenotypical and genotypical properties of each bacterial genus associated with antimicrobial resistance, transmission dynamics from different reservoirs (food animals, poultry, fishes) and control measures with alternative therapy, such as phytobiotics and nanomaterials are provided. Researchers, scientists and practitioners will find this an essential resource on the judicious use of antibiotics in animals and humans. Explores all the genera of livestock and fish originated pathogenic bacteria associated with antimicrobial resistance Presents cutting-edge research on epigenetics, nanotechnology and intervention technologies Discusses transmission dynamics of resistance gene pools from different reservoirs, including food animals, poultry, fishes and the environment

Smart Textiles: Wearable Nanotechnology provides a comprehensive presentation of recent advancements in the area of smart nanotextiles giving specific importance to materials and production processes. Different materials, production routes, performance characteristics, application areas and functionalization mechanisms are covered. The book provides a guideline to students, researchers, academicians and technologists who seek novel solutions in the related area by including groundbreaking advancements in different aspects of the diverse smart nanotextiles fields. This ground-breaking book is expected to spark an inspiration to allow future progress in smart nanotextiles research. The diversity of the topics, as well as the expert subject-matter contributors from all over the world representing various disciplines, ensure comprehensiveness and a broad understanding of smart nanotextiles.

"This volume brings together leading experts in the areas of nutrition, nutrigenomics, metabolic programming, food-based bioactive dietary components and the gut microbiome, as well as those expert in the application of innovative tools and methods for statistical and biological network analysis, which are now at the forefront of nutritional and biomedical sciences. The articles provide a roadmap for the integration of normative science methods and approaches with more comprehensive systems biology-based investigations that deploy a multitude of omic platforms. This integration is essential to escape the bottleneck in knowledge generation by applying decades of knowledge of nutrients and their function to comprehensive omics and clinical data acquisition, processing, visualization, and interpretation. Achieving a systems-level understanding of nutrient function in health and disease will usher in an age of precision nutrition in support of maximizing human health and potential"--

Clinical Practice Guidelines for Midwifery & Women's Health, Sixth Edition is an accessible and easy-to-use quick reference guide for midwives and women's healthcare providers. Completely updated and revised to reflect the changing clinical environment, it offers current evidence-based practice, updated approaches, and opportunities for midwifery leadership in every practice setting. Also included are integrative, alternative, and complementary therapies.

Ponto de partida ideal para qualquer projeto de arquitetura, este livro trata de aspectos específicos do projeto, como materiais, acústica e iluminação, de dados gerais de projeto sobre as dimensões humanas (ergonomia e ergometria) e de necessidades espaciais. A obra fornece as exigências básicas para projetos considerando as mudanças de comportamento, climáticas e necessidades da sociedade, como projetar para áreas sujeitas a enchentes, inclusão de práticas de projeto sustentável, etc.

Louis 'Satchmo' Armstrong was not only jazz's greatest musician and innovator, but also arguably its most famous entertainer and the frontal figure in the development of contemporary popular music. Overcoming social and political obstacles, he created a long and impressive career and an enormous musical output. Now, his ground breaking musical career is amassed and detailed in this discography of all his works, from professionally made commercial releases, to amateur and unissued recordings. All of Me is a comprehensive, chronological discography born out of love and admiration for Louis Armstrong, and devotion to years of collecting his musical accomplishments. Author Jos Willems has meticulously compiled all of Satchmo's known recordings_both studio and live performances_and with assistance from internationally renowned specialists, has assembled an impressively detailed, accurate, and complete listing. This volume is superbly formatted and presented, logically organized, and thoroughly indexed by song title and individual. Researchers, collectors, and enthusiasts can easily look up any detail of a recording: issues and releases of particular songs; publishing companies; producers; catalog numbers; dates, times, and locations of recordings; musicians Armstrong played with; and format, be it 78 or 45 RPM records, LPs, CDs, or media appearances. Every detail of Armstrong's career is listed in this impressive volume, shedding light on the enormity of his impact on jazz and popular culture. This is the ultimate reference guide for the complete works of Louis Armstrong.

This book discusses the practical applications of quorum sensing inhibitors for both human and plant health. Quorum sensing inhibitors that disrupt microbial biofilms can be employed to treat bacterial infections. The book describes the various bioactive molecules that can serve as quorum sensing inhibitors to combat deadly bacterial infections, in addition to several synthetic quorum sensing inhibitors. Quorum sensing is the mechanism through which bacteria develop antibiotic resistance. Intended to provide a clearer understanding of the practical applications of quorum sensing inhibitors, the book details how the problem of antibiotic resistance can be countered through the intelligent application of quorum sensing inhibitors.

Handbook of Antiblocking, Release, and Slip AdditivesElsevier

This book provides a path for resolving challenges related to access, diversity, equity, and other issues facing higher education admissions. It illuminates current higher education admissions practices in a global context, highlighting common obstacles. The chapters outline decision-making models used in college admissions, details those assessments commonly employed in admissions, and provides innovative perspectives on the future of admissions. The book's multidisciplinary approach defines much-needed changes in admissions brought about by shifts in the makeup of student populations and in higher education itself. Rationales for moving away from traditional assessments used in admissions and expanding the criteria used to ensure a student's academic success are discussed. Readers will come away with an understanding of the current issues, philosophies, and historical circumstances facing higher education admissions across the globe and will be equipped to contemplate and react to future possibilities and opportunities.

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