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RAMIRAN 2017: Sustainable Utilisation of Manures and Residue Resources in Agriculture

A World of Rhythmic Possibilities

Applications of Process Engineering Principles in Materials Processing, Energy and Environmental Technologies

David Vizard's How to Port and Flow Test Cylinder Heads

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A Holistic Approach to Ship Design

A Laboratory Manual for the Isolation, Identification and Characterization of Avian Pathogens

Powering the U.S. Army of the Future

Novel Drug Delivery Technologies

HOLMES ALLEN**RAMIRAN 2017: Sustainable Utilisation of Manures and Residue Resources in Agriculture** National Academies Press

In the tradition of monumental Magnum books, this publication brings together an eclectic assortment of work by the finest photographers of our time, capturing a riveting and seductive series of fleeting moments around the world. For half a century, Magnum photographers - through countless commissions and their own personal work - have produced images that comment on the state of the world. In photographing the landscape they are not just spectators but participants, aware that the land itself has been shaped by man, and that the very notion of a landscape depends on a human viewpoint. As each photographer records and interprets a diversity of subject matter to form a unique personal style, the variations on this theme are endless - landscapes of war, of agriculture, of industry, of cities and motorways, of desolation, celebration and tranquillity. The photographs assimilated in this book invite us to rediscover landscape, and urge us to think more profoundly not only about planet earth in its entirety, but about our own place in it.

A World of Rhythmic Possibilities Springer Nature
Studies of mammary gland biology are critically important given the prevalence of breast cancer in the population. There are many other reasons to study this organ, however. It represents an excellent model system for research into developmental mechanisms, gene regulation, tissue organization, hormonal action, secretion, and stem cell biology, revealing general principles that can be extended to other organs and tissues. This book provides valuable lessons for all cell, developmental, and cancer biologists.

Applications of Process Engineering Principles in Materials Processing, Energy and Environmental Technologies Capstone
This book is the definitive guide to building or rebuilding an effective, successful, and profitable Commercial Truck Operation within a retail auto dealership. Used by major automotive dealerships in America, when you want to build as truly successful Commercial Truck Division in your dealership you will do well to get this book and study it cover-to-cover!

David Vizard's How to Port and Flow Test Cylinder Heads Documeant Publishing

This book deals with ship design and in particular with methodologies of the preliminary design of ships. The book is complemented by a basic bibliography and five appendices with useful updated charts for the selection of the main dimensions and other basic characteristics of different types of ships (Appendix A), the determination of hull form from the data of systematic hull form series (Appendix B), the detailed description of the relational method for the preliminary estimation of ship weights (Appendix C), a brief review of the historical evolution of shipbuilding science and technology from the prehistoric era to date (Appendix D) and finally a historical review of regulatory developments of ship's damage stability to date (Appendix E). The book can be used as textbook for ship design courses or as additional reading for university or college students of naval architecture courses and related disciplines; it may also serve as a reference book for naval architects, practicing engineers of related disciplines and ship officers, who like to enter the ship design field systematically or to use practical methodologies for the estimation of ship's main dimensions and of other ship main properties and elements of ship design.

Flames, Their Structure, Radiation, and Temperature Springer Nature

The original run of the legendary Kamen Rider manga, now in English as a special 50th anniversary hardcover omnibus! Fans the world over have long been enthralled by tales of Kamen Rider, the masked, motorcycle-riding superhero who protects the world from injustice. Kidnapped and experimented upon by the evil terrorist organization known as Shocker, Hongo Takeshi manages to escape their clutches and use his newfound strength to fight against their schemes. These are the first adventures in a legacy that spans dozens of television series and films, drawn and written by series creator and manga superstar Shotaro Ishinomori. Commemorating the 50th anniversary of the classic 1971 publication, this collection is the first hardcover edition of Kamen Rider in English. It features the original Kamen Rider manga series plus special bonus materials and full-color inserts.
The Australian Official Journal of Trademarks Springer Science & Business Media

Medicinal and Aromatic Plants XII comprises 18 chapters. It deals

with the distribution, importance, conventional propagation, micropropagation, tissue culture studies, and the in vitro production of important medicinal and pharmaceutical compounds in the following plants: *Artemisia annua*, *Coriandrum sativum*, *Crataegus*, *Dionaea muscipula*, *Hyoscyamus reticulatus*, *Hypericum canariense*, *Leguminosae*, *Malva*, *Ocimum*, *Pergularia tomentosa*, *Phellodendron amurense*, *Sempervivum*, *Solanum aculeatissimum*, *S. chrysotrichum*, *S. kasianum*, *Stephania*, *Trigonella*, and *Vaccinium*. It is tailored to the needs of advanced students, teachers, and research scientists in the fields of pharmacy, plant tissue culture, phytochemistry, biomedical engineering, and plant biotechnology in general.

Perspectives on Deep-Sea Mining CRC Press

This collection offers new research findings, innovations, and industrial technological developments in extractive metallurgy, energy and environment, and materials processing. Technical topics included in the book are thermodynamics and kinetics of metallurgical reactions, electrochemical processing of materials, plasma processing of materials, composite materials, ionic liquids, thermal energy storage, energy efficient and environmental cleaner technologies and process modeling. These topics are of interest not only to traditional base ferrous and non-ferrous metal industrial processes but also to new and upcoming technologies, and they play important roles in industrial growth and economy worldwide.

HCI International 2020 - Posters Springer

The application of drug delivery is a valuable, cost-effective lifecycle management resource. By endowing drugs with new and innovative therapeutic benefits, drug delivery systems extend products' profitable lifecycle, giving pharmaceutical companies competitive and financial advantages, and providing patients with improved medications. Formulation development is now being used to create new dosage forms for existing products, which not only reduces the time and expense involved in new drug development, but also helps with regard to patent protection and bypassing existing patents. Today's culture demands convenience, a major factor determining adherence to drug therapy. Over the past few years, patient convenience-oriented research in the field of drug delivery has yielded a range of innovative drug-delivery options. As a result, various drug-delivery systems, including medicated chewing gums, oral

dispersible tablets, medicated lozenges and lollipops, have now hit the market and are very popular. These dosage forms offer a highly convenient way to dose medications, not only for special population groups with swallowing difficulties, such as children and the elderly, but for the general populace as well. This book provides valuable insights into a number of formulation design approaches that are currently being used, or could be used, to provide new benefits from existing drug molecules.

Food Additives Handbook Forschungszentrum Jülich
The three-volume set CCIS 1224, CCIS 1225, and CCIS 1226 contains the extended abstracts of the posters presented during the 21st International Conference on Human-Computer Interaction, HCII 2020, which took place in Copenhagen, Denmark, in July 2020.* HCII 2020 received a total of 6326 submissions, of which 1439 papers and 238 posters were accepted for publication in the pre-conference proceedings after a careful reviewing process. The 238 papers presented in these three volumes are organized in topical sections as follows: Part I: design and evaluation methods and tools; user characteristics, requirements and preferences; multimodal and natural interaction; recognizing human psychological states; user experience studies; human perception and cognition. -AI in HCI. Part II: virtual, augmented and mixed reality; virtual humans and motion modelling and tracking; learning technology. Part III: universal access, accessibility and design for the elderly; smartphones, social media and human behavior; interacting with cultural heritage; human-vehicle interaction; transport, safety and crisis management; security, privacy and trust; product and service design. *The conference was held virtually due to the COVID-19 pandemic. The chapter "Developing an Interactive Tabletop Mediated Activity to Induce Collaboration by Implementing Design Considerations Based on Cooperative Learning Principles" is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

[Biohydrogen](#) Academic Press

In this book, researchers and practitioners working in the field present the major promises of algae biotechnology and they critically discuss the challenges arising from applications. Based on this assessment, the authors explore the great scientific, industrial and economic potential opened up by algae

biotechnology. The first part of the book presents recent developments in key enabling technologies, which are the driving force to unleash the enormous potential of algae biotechnology. The second part of the book focuses on how practical applications of algae biotechnology may provide new solutions to some of the grand challenges of the 21st century. Algae offer great potential to support the building of a bio-based economy and they can contribute new solutions to some of the grand challenges of the 21st century. Despite significant progress, algae biotechnology is yet far from fulfilling its potential. How to unleash this enormous potential is the challenge that the own field is facing. New cultivation technologies and bioprocess engineering allow for optimization of the operation strategy of state-of-the-art industrial-scale production systems and they reduce the production costs. Parallel to this, new molecular technologies for genetic and metabolic engineering of (micro)algae develop quickly. The optimization of existing biochemical pathways or the introduction of pathway components makes high-yield production of specific metabolites possible. Novel screening technologies including high-throughput technologies enables testing of extremely large numbers of samples and, thus, allow for large scale modelling of biomolecular processes, which would have not been possible in the past. Moreover, profitable production can demand for integrated biorefining, which combines consecutive processes and various feedstocks to produce both transportation fuel, electric energy and valuable chemicals.

Grand Challenges in Algae Biotechnology Springer
This masterful book from top experts provides clinical insights on reverse shoulder arthroplasty gleaned from hands-on refinement of shoulder replacement techniques. Years of significant biomechanical and clinical research yielded invaluable knowledge that led to important improvements in functional outcome and implant durability. Among these refinements were stronger polyethylene derivatives, better ingrowth technology, and improved connection devices. As the durability and longevity of implant technology increased, younger active patients became suitable candidates for this procedure. In fact, RSA has played a pivotal role in making shoulder arthroplasty the fastest growing implant technology. In the first two sections, the authors take the reader through the history and evolution of RSA, followed by step-by-step surgical techniques for specific injuries and conditions.

The next three sections discuss past and recent outcomes, complications, and rehabilitation. The last section covers special considerations including patient specific instrumentation, convertible humeral and glenoid components, and the future potential of stemless humeral technology. Key Features The latest trends in patient-specific components, guide systems, and instrument design The use of RSA for rotator cuff repair, shoulder arthritis, and acute and complex fractures In-depth discussion of techniques to improve deltoid function, avoid impingement, and increase implant longevity Clinical pearls on how to recognize and handle complications that occur: instability, infection, scapular notching, component loosening, glenoid and humeral bone loss, and RSA failure High quality videos and 300 superb illustrations further delineate techniques This book is a practical resource that enables learning complex procedures, putting them into practice, and handling complications should they arise. It is an essential tool for all orthopaedic surgeons who treat shoulder conditions.

18th World Hydrogen Energy Conference 2010 - WHEC

2010 Government Printing Office

Biohydrogen: For Future Engine Fuel Demands covers the production, purification, storage, pipeline transport, usage, and safety of biohydrogen. Hydrogen promises to be the most significant fuel source of the future, due to its global availability and the fact that water is its only by-product. Biofuels such as bioethanol, biodiesel, bio-oil, and biohydrogen are produced using technologies for thermochemically and biologically converting biomass. Hydrogen fuel production technologies can make use of either non-renewable sources, or renewable sources such as wind, solar, and biorenewable resources. Biohydrogen: For Future Engine Fuel Demands reviews all of the modern biomass-based transportation fuels, including bioethanol, biodiesel, biogas, biohydrogen, and fuel cells. The book also discusses issues of biohydrogen economy, policy and environmental impact. Biohydrogen looks set to be the fuel of choice in the future, replacing both fossil fuels and biorenewable liquid fuels.

The Mammary Gland as an Experimental Model National Geographic Books

Technologies and Approaches to Reducing the Fuel Consumption of Medium- and Heavy-Duty Vehicles evaluates various technologies and methods that could improve the fuel economy of medium- and heavy-duty vehicles, such as tractor-trailers,

transit buses, and work trucks. The book also recommends approaches that federal agencies could use to regulate these vehicles' fuel consumption. Currently there are no fuel consumption standards for such vehicles, which account for about 26 percent of the transportation fuel used in the U.S. The miles-per-gallon measure used to regulate the fuel economy of passenger cars, is not appropriate for medium- and heavy-duty vehicles, which are designed above all to carry loads efficiently. Instead, any regulation of medium- and heavy-duty vehicles should use a metric that reflects the efficiency with which a vehicle moves goods or passengers, such as gallons per ton-mile, a unit that reflects the amount of fuel a vehicle would use to carry a ton of goods one mile. This is called load-specific fuel consumption (LSFC). The book estimates the improvements that various technologies could achieve over the next decade in seven vehicle types. For example, using advanced diesel engines in tractor-trailers could lower their fuel consumption by up to 20 percent by 2020, and improved aerodynamics could yield an 11 percent reduction. Hybrid powertrains could lower the fuel consumption of vehicles that stop frequently, such as garbage trucks and transit buses, by as much 35 percent in the same time frame.

Vehicular Engine Design Springer Science & Business Media
Porting heads is an art and science. It takes a craftsman's touch to shape the surfaces of the head for the optimal flow characteristics and the best performance. Porting demands the right tools, skills, and application of knowledge. Few other engine builders have the same level of knowledge and skill porting engine heads as David Vizard. All the aspects of porting stock as well as aftermarket heads in aluminum and cast-iron constructions are covered. Vizard goes into great depth and detail on porting aftermarket heads. Starting with the basic techniques up to more advanced techniques, you are shown how to port iron and aluminum heads as well as benefits of hand and CNC porting. You are also shown how to build a high-quality flow bench at home so you can test your work and obtain professional results. Vizard shows how to optimize flow paths through the heads, past the valves, and into the combustion chamber. The book covers blending the bowls, a basic porting procedure, and also covers pocket porting, porting the intake runners, and many advanced procedures. These advanced procedures include unshrouding

valves, porting a shortside turn from the floor of the port down toward the valve seat, and developing the ideal port area and angle. All of these changes combine to produce optimal flow velocity through the engine for maximum power.

Ship Design CarTech Inc

Like almost every major scientific or medical breakthrough in history, the transdermal delivery of drugs started as only an idea - slowly moving its way from the drawing board to actual testing and eventually approval. Today, there are more than 20 companies involved in transdermal drug delivery. In addition, almost every large pharmaceutical firm has ongoing transdermal delivery programs. But in spite of this effort and after 15 years from the introduction of the Nitroglycerin patch, only six transdermal drugs exist in the marketplace. The practice has been hampered by the fact that most drugs, as well as many excipients used in the manufacture of transdermal patches, cause skin irritation or skin sensitization. Similar problems exist with the application of dermatologicals and cosmetics to skin, which in many cases are equally as severe as those encountered in transdermal delivery. *Biochemical Modulation of Skin Reactions: Transdermals, Topicals, Cosmetics* presents a series of chapters describing technologies and the practical application of biochemicals which might lead to the reduction or abrogation of these skin reaction. In addition, it addresses those areas of skin immunology and skin sciences that account for the processes that control irritant and allergic contact dermatitis and outlines the numerous cellular and molecular factors involved in the development of irritation and sensitization. Indeed, *Biochemical Modulation of Skin Reactions* helps serve as a catalyst for further research in the field, allowing for more drugs and cosmetics to be applied to the skin without adverse effects. Features *Kamen Rider - The Classic Manga Collection* Humana Press
This volume, number 91 in the Semiconductor and Semimetals series, focuses on defects in semiconductors. Defects in semiconductors help to explain several phenomena, from diffusion to getter, and to draw theories on materials' behavior in response to electrical or mechanical fields. The volume includes chapters focusing specifically on electron and proton irradiation of silicon, point defects in zinc oxide and gallium nitride, ion implantation defects and shallow junctions in silicon and germanium, and much more. It will help support students and

scientists in their experimental and theoretical paths. - Expert contributors - Reviews of the most important recent literature - Clear illustrations - A broad view, including examination of defects in different semiconductors

Greenhouse Gas Emissions Standards and Fuel Efficiency Standards for Medium- and Heavy-duty Engines and Vehicles Frontiers Media SA

Manual for the isolation, identification and characterization of avian pathogens

Noncanonical Amino Acids Springer

This book is a sequel to 'Deep-Sea Mining: Resource Potential, Technical and Environmental Considerations' (2017) and 'Environmental Issues of Deep-Sea Mining: Impacts, Consequences and Policy Perspectives' (2019), and aims to provide a comprehensive volume on different perspectives of deep-sea mining from specialists around the world. The work is timely, as deep-sea minerals continue to enthuse researchers involved in activities such as ascertaining their potential as alternative sources for critical metals for green energy and other industrial applications, as well as technology development for their sustainable exploration and exploitation, while addressing environmental concerns. With a steady increase in the number of contractors having exclusive rights over large tracts of seafloor in the 'Area', i.e. area beyond national jurisdictions, the International Seabed Authority, mandated with the responsibility of regulating such activities, is in the process of developing a code for exploitation of deep-sea minerals. These, coupled with growing interest among private entrepreneurs, investment companies and policy makers, underscore the need for updated information to be made available in one place on the subject of deep-sea mining. The book evaluates the potential and sustainability of mining for deep-sea minerals compared to other land-based deposits, the technologies needed for mining and processing of ores, the approach towards environmental monitoring and management, as well as the regulatory frameworks and legal challenges to manage deep-sea mining activities. The book is expected to serve as an important reference for all stakeholders including researchers, contractors, mining companies, regulators and NGOs involved in deep-sea mining.

Technologies and Approaches to Reducing the Fuel Consumption of Medium- and Heavy-Duty Vehicles Springer Nature

The book explains the principles and fundamentals of Green Analytical Chemistry (GAC) and highlights the current developments and future potential of the analytical green chemistry-oriented applications of various solutions. The book consists of sixteen chapters, including the history and milestones of GAC; issues related to teaching of green analytical chemistry and greening the university laboratories; evaluation of impact of analytical activities on the environmental and human health, direct techniques of detection, identification and determination of trace constituents; new achievements in the field of extraction of trace analytes from samples characterized by complex composition of the matrix; "green" nature of the derivatization process in analytical chemistry; passive techniques of sampling of analytes; green sorption materials used in analytical procedures; new types of solvents in the field of analytical chemistry. In addition green chromatography and related techniques, fast tests

for assessment of the wide spectrum of pollutants in the different types of the medium, remote monitoring of environmental pollutants, qualitative and comparative evaluation, quantitative assessment, and future trends and perspectives are discussed. This book appeals to a wide readership of the academic and industrial researchers. In addition, it can be used in the classroom for undergraduate and graduate Ph.D. students focusing on elaboration of new analytical procedures for organic and inorganic compounds determination in different kinds of samples characterized by complex matrices composition. Jacek Namieśnik was a Professor at the Department of Analytical Chemistry, Gdańsk University of Technology, Poland. Justyna Płotka-Wasyłka is a teacher and researcher at the same department.

Assembly Springer

This detailed volume presents a comprehensive compendium of clinical metabolomics protocols covering LC-MS, GC-MS, CE-MS,

and NMR-based clinical metabolomics as well as bioinformatics and study design considerations. The methodologies explored here form the core of several very promising initiatives evolving around personalized health care and precision medicine, which can be seen as complimentary to the field of clinical chemistry and aid the aforementioned field with novel disease markers and diagnostic patterns. Written for the highly successful Methods in Molecular Biology series, chapters include brief introductions to their topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Clinical Metabolomics: Methods and Protocols aims to serve as the basis for successful communication between scientists from several fields, including chemists, biologist, bioinformaticians, and clinicians, ultimately leading to effective study design and completion.

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