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Principles of Process Planning - G. Halevi 2012-12-06

Process planning determines how a product is to be manufactured and is therefore a key element in the manufacturing process. It plays a major part in determining the cost of components and affects all factory activities, company competitiveness, production planning, production efficiency and product quality. It is a crucial link between design and manufacturing. There are several levels of process planning activities. Early in product engineering and development, process planning is responsible for determining the general method of production. The selected general method of production affects the design constraints. In the last stages of design, the designer has to consider ease of manufacturing in order for it to be economic. The part design data is transferred from engineering to manufacturing and process planners develop the detailed work package for manufacturing a part. Dimensions and tolerances are determined for each stage of processing of the workpiece. Process planning determines the sequence of operations and utilization of machine tools. Cutting tools, fixtures, gauges and other accessory tooling are also specified. Feeds, speeds and other parameters of the metal cutting and forming processes are determined.

Microbial Growth in Drinking Water Supplies - Dick van der Kooij 2013-09-14

Maintaining the microbial quality in distribution systems and connected installations remains a challenge for the water supply companies all over the world, despite many years of research. This book identifies the main concerns and knowledge gaps related to regrowth and stimulates cooperation in future research. *Microbial Growth in Drinking Water Supplies* provides an overview of the regrowth issue in different countries and the water quality problems related to regrowth. The book assesses the causes of regrowth in drinking water and the prevention of regrowth by water treatment and distribution. Editors: Dirk van der Kooij and Paul W.J.J. van der Wielen, KWR Watercycle Research Institute, The Netherlands

Situating Sustainability - C. Parker Krieg 2021-11-22

Situating Sustainability reframes our understanding of sustainability through an emerging international terrain of concepts and case studies. These approaches include material practices, such as extraction and disaster recovery, and extend into the domains of human rights and education. This volume addresses the need in sustainability science to recognize the deep and diverse cultural histories that define environmental politics. It brings together scholars from cultural studies, anthropology, literature, law, behavioral science, urban studies, design, and development to argue that it is no longer possible to talk about sustainability in general without thinking through the contexts of research and action. These contributors are joined by artists whose public-facing work provides a mobile platform to conduct research at the edges of performance, knowledge production, and socio-ecological infrastructures. *Situating Sustainability* calls for a truly transdisciplinary research that is guided by the humanities and social sciences in collaboration with local actors informed by histories of place. Designed for students, scholars, and interested readers, the volume introduces the conceptual practices that inform the leading edge of engaged research in sustainability.

Building Information Modelling, Building Performance, Design and Smart Construction - Mohammad Dastbaz 2017-03-31

This book charts the path toward high performance sustainable buildings and the smart dwellings of the future. The volume clearly explains the principles and practices of high performance design, the uses of building information modelling (BIM), and the materials and methods of smart construction. Power Systems, Architecture, Material Science, Civil Engineering and Information Systems are all given consideration, as interdisciplinary endeavours are at the heart of this green building revolution.

Quality Engineering Handbook - Thomas Pyzdek 2003-04-09

Written by one of the foremost authorities on the subject, the Second Edition is completely revised to reflect the latest changes to the ASQ Body of Knowledge for the Certified Quality Engineer (CQE). This handbook covers every essential topic required by the quality engineer for day-to-day practices in planning, testing, finance, and management and thoroughly examines and defines the principles and benefits of Six Sigma management and organization. The *Quality Engineering Handbook* provides new and expanded sections on management systems, leadership and facilitation principles and techniques, training, customer relations, documentation systems, domestic and international standards, and more.

In Vitro Digestibility in Animal Nutritional Studies - Pier Giorgio Peiretti 2020-12-29

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

Embryo Culture - Gary D. Smith 2012-07-25

Assisted reproductive technologies have had a profound impact on biomedical research through transgenic animals, food supply and production, as well as genetic gain of domestic species, and treatment of human infertility. While significant advances in embryo culture have occurred over the last few decades. In *Embryo Culture: Methods and Protocols*, expert researchers in the field detail many of the methods which are now commonly used to study human embryo culture. These include emerging methods and the impact of embryo culture on epigenetics and offspring health is presented to set the stage for future research and laboratory application involving embryo culture. Written in the highly successful *Methods in Molecular Biology*™ series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and key tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, *Embryo Culture: Methods and Protocols* seeks to aid scientists in the further study of this crucially important field of embryology and assisted reproductive technologies.

Eco-friendly Polymer Nanocomposites - Vijay Kumar Thakur 2015-07-20

This book contains precisely referenced chapters, emphasizing environment-friendly polymer nanocomposites with basic fundamentals, practicality and alternatives to traditional nanocomposites through detailed reviews of different environmental friendly materials procured from different resources, their synthesis and applications using alternative green approaches. The book aims at explaining basics of eco-

friendly polymer nanocomposites from different natural resources and their chemistry along with practical applications which present a future direction in the biomedical, pharmaceutical and automotive industry. The book attempts to present emerging economic and environmentally friendly polymer nanocomposites that are free from side effects studied in the traditional nanocomposites. This book is the outcome of contributions by many experts in the field from different disciplines, with various backgrounds and expertises. This book will appeal to researchers as well as students from different disciplines. The content includes industrial applications and will fill the gap between the research works in laboratory to practical applications in related industries.

Metadata and Semantic Research - Emmanouel Garoufallou 2021-03-17

This book constitutes the thoroughly refereed proceedings of the 14th International Conference on Metadata and Semantic Research, MTSR 2020, held in Madrid, Spain, in December 2020. Due to the COVID-19 pandemic the conference was held online. The 24 full and 13 short papers presented were carefully reviewed and selected from 82 submissions. The papers are organized in the following tracks: metadata, linked data, semantics and ontologies; metadata and semantics for digital libraries, information retrieval, big, linked, social and open data; metadata and semantics for agriculture, food, and environment, AgroSEM 2020; metadata and semantics for open repositories, research information systems and data infrastructures; digital humanities and digital curation, DHC 2020; metadata and semantics for cultural collections and applications; european and national projects; knowledge IT artifacts (KITA) in professional communities and aggregations, KITA 2020.

Minewater Treatment - Melanie Brown 2002-03-31

Part of Groundwater Set - Buy all six books and save over 30% on buying separately! Biffaward Winner 2002 The Clean Rivers Trust has fought off stiff competition to become the Research and Development - Technology Category winner at the Biffaward Awards 2002, with its project "Technology Analysis of Acid Mine Drainage Treatment Methods". Minewater Treatment - Technology, Application and Policy, was produced based on the findings of the research to aid in the selection, design and implementation of the most appropriate treatment techniques for particular minewater discharges. Much work has been carried out in recent decades concerning minewater treatment, both in the UK and worldwide. Many different bodies and organizations are involved in developing minewater treatment processes and schemes. Minewater Treatment addresses the need for a single source of state-of-the-art information that draws all the latest research material together. Key features of the book include: a full literature review of minewater treatment throughout the world an overview of relevant legislation and policy in a global context a review of currently available methods for treating minewater worldwide a site specific inventory of minewater treatment schemes within the UK, including compilation of available monitoring data and assessment of performance a review of emerging and innovative minewater treatment technologies and consideration of related academic research within the UK a comprehensive list of active and innovative minewater treatment technologies that are not currently compiled in a book or other review publication a detailed summary and recommendations section assessing the applicability, efficiency and cost-effectiveness of minewater treatment schemes Relevant scientific subject matter is presented in a concise, easily accessible manner to assist with the objective assessment of the progress made to date. Heavily illustrated with many colour photographs, the book allows best use to be made of the collective experience of minewater treatment practitioners throughout the UK, whilst at the same time placing the UK experience within a global context. An invaluable reference work for mining companies, consultants, planning officers, environmental research scientists, environmental agencies, water utilities and regulatory bodies, Minewater Treatment is a definitive source of information on minewater treatment technologies and will help facilitate the selection of the most appropriate technique required to tackle particular minewater discharge problems. Contents The minewater problem Treatment options Existing sites in the UK: Case studies Existing sites in the UK: Site summaries Summary & conclusions

Logistics 4.0 - Turan Paksoy 2020-12-18

Industrial revolutions have impacted both, manufacturing and service. From the steam engine to digital automated production, the industrial revolutions have conducted significant changes in operations and supply chain management (SCM) processes. Swift changes in manufacturing and service systems have led to phenomenal improvements in productivity. The fast-paced environment brings new challenges and

opportunities for the companies that are associated with the adaptation to the new concepts such as Internet of Things (IoT) and Cyber Physical Systems, artificial intelligence (AI), robotics, cyber security, data analytics, block chain and cloud technology. These emerging technologies facilitated and expedited the birth of Logistics 4.0. Industrial Revolution 4.0 initiatives in SCM has attracted stakeholders' attentions due to its ability to empower using a set of technologies together that helps to execute more efficient production and distribution systems. This initiative has been called Logistics 4.0 of the fourth Industrial Revolution in SCM due to its high potential. Connecting entities, machines, physical items and enterprise resources to each other by using sensors, devices and the internet along the supply chains are the main attributes of Logistics 4.0. IoT enables customers to make more suitable and valuable decisions due to the data-driven structure of the Industry 4.0 paradigm. Besides that, the system's ability of gathering and analyzing information about the environment at any given time and adapting itself to the rapid changes add significant value to the SCM processes. In this peer-reviewed book, experts from all over the world, in the field present a conceptual framework for Logistics 4.0 and provide examples for usage of Industry 4.0 tools in SCM. This book is a work that will be beneficial for both practitioners and students and academicians, as it covers the theoretical framework, on the one hand, and includes examples of practice and real world.

Prebiotic Chemistry and the Origin of Life - Anna Neubeck 2022-01-03

This book presents an overview of current views on the origin of life and its earliest evolution. Each chapter describes key processes, environments and transition on the long road from geochemistry and astrochemistry to biochemistry and finally to the ancestors of today's organisms. This book combines the bottom-up and the top-down approaches to life including the origin of key chemical and structural features of living cells and the nature of abiotic factors that shaped these features in primordial environments. The book provides an overview of the topic as well as its state of the art for graduate students and newcomers to the field. It also serves as a reference for researchers in origins of life on Earth and beyond.

Aeronautical Engineer's Data Book - Cliff Matthews 2001-10-17

Aeronautical Engineer's Data Book is an essential handy guide containing useful up to date information regularly needed by the student or practising engineer. Covering all aspects of aircraft, both fixed wing and rotary craft, this pocket book provides quick access to useful aeronautical engineering data and sources of information for further in-depth information. Quick reference to essential data Most up to date information available

Proceedings of the 12th International Conference on Measurement and Quality Control - Cyber Physical Issue - Vidosav D. Majstorovic 2019-05-03

This book gathers the proceedings of the 12th International Conference on Measurement and Quality Control - Cyber Physical Issues (IMEKO TC 14 2019), held in Belgrade, Serbia, on 4-7 June 2019. The event marks the latest in a series of high-level conferences that bring together experts from academia and industry to exchange knowledge, ideas, experiences, research findings, and information in the field of measurement of geometrical quantities. The book addresses a wide range of topics, including: 3D measurement of GPS characteristics, measurement of gears and threads, measurement of roughness, micro- and nano-metrology, laser metrology for precision measurements, cyber physical metrology, optical measurement techniques, industrial computed tomography, multisensor techniques, intelligent measurement systems, evaluating measurement uncertainty, dimensional management in industry, product quality assurance methods, and big data analytics. By providing updates on key issues and highlighting recent advances in measurement and quality control, the book supports the transfer of vital knowledge to the next generation of academics and practitioners.

Media Literacy in a Disruptive Media Environment - William G. Christ 2020-03-23

This book, part of the BEA Electronic Media Research Series, brings together top scholars researching media literacy and lays out the current state of the field in areas such as propaganda, news, participatory culture, representation, education, social/environmental justice, and civic engagement. The field of media literacy continues to undergo changes and challenges as audiences are reconceptualized and reconfigured, media industries are transformed and replaced, and the production of media texts is available to anyone with a smartphone. The book provides an overview of these. It offers readers specific examples and

recommendations to help others as they develop their own teaching and research agendas. *Media Literacy in a Disruptive Media Environment* will be of great interest to scholars and graduate students studying media literacy through the lens of broadcasting, communication studies, media and cultural studies, film, and digital media studies.

Fundamentals of Electronic Systems Design - Jens Lienig 2017-04-25

This textbook covers the design of electronic systems from the ground up, from drawing and CAD essentials to recycling requirements. Chapter by chapter, it deals with the challenges any modern system designer faces: The design process and its fundamentals, such as technical drawings and CAD, electronic system levels, assembly and packaging issues and appliance protection classes, reliability analysis, thermal management and cooling, electromagnetic compatibility (EMC), all the way to recycling requirements and environmental-friendly design principles. "This unique book provides fundamental, complete, and indispensable information regarding the design of electronic systems. This topic has not been addressed as complete and thorough anywhere before. Since the authors are world-renown experts, it is a foundational reference for today's design professionals, as well as for the next generation of engineering students." Dr. Patrick Groeneveld, Synopsys Inc.

Emerging Trends in Electrical, Communications, and Information Technologies - T. Hitendra Sarma 2019-09-24

This book includes original, peer-reviewed research from the 3rd International Conference on Emerging Trends in Electrical, Communication and Information Technologies (ICECIT 2018), held at Srinivasa Ramanujan Institute of Technology, Ananthapuramu, Andhra Pradesh, India in December 2018. It covers the latest research trends and developments in the areas of Electrical Engineering, Electronic and Communication Engineering, and Computer Science and Information.

Design of Structural Elements - William McKenzie 2013-04-19

This classic and well-respected textbook provides the most comprehensive coverage of the process of design for structural elements and features a wealth of practical problems and real-world examples. It introduces readers to the design requirements of the Eurocodes for the four most commonly used materials in construction: concrete, steel, timber and masonry, and illustrates the concepts and calculations necessary for the design of the most frequently encountered basic structural elements. It includes a detailed section on structural analysis. The scope of this text is wide, and its numerous examples, problems and easy-to-follow diagrams make it an ideal course text. This user-friendly text is an indispensable resource both for undergraduates in all years of civil engineering and structural engineering, in construction and architecture, and for practising engineers looking to refresh their knowledge.

Mechanical and Metal Trades Handbook - Roland Gomerger 2018-05

Amphibian Evolution - Rainer R. Schoch 2014-03-19

This book focuses on the first vertebrates to conquer land and their long journey to become fully independent from the water. It traces the origin of tetrapod features and tries to explain how and why they transformed into organs that permit life on land. Although the major frame of the topic lies in the past 370 million years and necessarily deals with many fossils, it is far from restricted to paleontology. The aim is to achieve a comprehensive picture of amphibian evolution. It focuses on major questions in current paleobiology: how diverse were the early tetrapods? In which environments did they live, and how did they come to be preserved? What do we know about the soft body of extinct amphibians, and what does that tell us about the evolution of crucial organs during the transition to land? How did early amphibians develop and grow, and which were the major factors of their evolution? The Topics in Paleobiology Series is published in collaboration with the Palaeontological Association, and is edited by Professor Mike Benton, University of Bristol. Books in the series provide a summary of the current state of knowledge, a trusted route into the primary literature, and will act as pointers for future directions for research. As well as volumes on individual groups, the series will also deal with topics that have a cross-cutting relevance, such as the evolution of significant ecosystems, particular key times and events in the history of life, climate change, and the application of a new techniques such as molecular palaeontology. The books are written by leading international experts and will be pitched at a level suitable for advanced undergraduates, postgraduates, and researchers in both the paleontological and biological sciences.

The Encyclopedia of Addictive Drugs - Richard Lawrence Miller 2002

Draws together information from a variety of sources to list and describe more than 130 addictive drugs, including both natural substances and pharmaceutical products.

Advances in Fresh-Cut Fruits and Vegetables Processing - Olga Martin-Belloso 2010-10-21

Despite a worldwide increase in demand for fresh-cut fruit and vegetables, in many countries these products are prepared in uncontrolled conditions and have the potential to pose substantial risk for consumers. Correspondingly, researchers have ramped up efforts to provide adequate technologies and practices to assure product safety while keeping n

Advanced Technologies, Systems, and Applications II - Mirsad Hadžikadić 2018-01-30

This book presents innovative and interdisciplinary applications of advanced technologies. It includes the scientific outcomes of the 9th DAYS OF BHAAAS (Bosnian-Herzegovinian American Academy of Arts and Sciences) held in Banja Vrućica, Teslić, Bosnia and Herzegovina on May 25–28, 2017. This unique book offers a comprehensive, multidisciplinary and interdisciplinary overview of the latest developments in a broad section of technologies and methodologies, viewed through the prism of applications in computing, networking, information technology, robotics, complex systems, communications, energy, mechanical engineering, economics and medicine, to name just a few.

CLT Handbook - Erol Karacabeyli 2013-01

Chemistry and Technology of Surfactants - Richard J. Farn 2008-04-15

Surfactants are used throughout industry as components in a huge range of formulated products or as effect chemicals in the production or processing of other materials. A detailed understanding of the basis of their activity is required by all those who use surfactants, yet the new graduate or postgraduate chemist or chemical engineer will generally have little or no experience of how and why surfactants work. *Chemistry & Technology of Surfactants* is aimed at new graduate or postgraduate level chemists and chemical engineers at the beginning their industrial careers and those in later life who become involved with surfactants for the first time. The book is a straightforward and practical survey of the chemistry of surfactants and their uses, providing a basic introduction to surfactant theory, information on the various types of surfactant and some application details. This will allow readers to build on their scientific education the concepts and principles on which the successful use of surfactants, across a wide range of industries, is based.

Geometrical Dimensioning and Tolerancing for Design, Manufacturing and Inspection - Georg Henzold 2006-10-13

Geometrical tolerancing is used to specify and control the form, location and orientation of the features of components and manufactured parts. This book presents the state of the art of geometrical tolerancing, covers the latest ISO and ANSI/ASME standards and is a comprehensive reference and guide for all professional engineers, designers, CAD users, quality managers and anyone involved in the creation or interpretation of CAD plans or engineering designs and specifications. * For all design and manufacturing engineers working with these internationally required design standards * Covers ISO and ANSI geometrical tolerance standards, including the 2005 revisions to the ISO standard * Geometrical tolerancing is used in the preparation and interpretation of the design for any manufactured component or item: essential information for designers, engineers and CAD professionals

The Prokaryotes - Edward F. DeLong 2014-11-18

The Prokaryotes is a comprehensive, multi-authored, peer reviewed reference work on Bacteria and Achaea. This fourth edition of The Prokaryotes is organized to cover all taxonomic diversity, using the family level to delineate chapters. Different from other resources, this new Springer product includes not only taxonomy, but also prokaryotic biology and technology of taxa in a broad context. Technological aspects highlight the usefulness of prokaryotes in processes and products, including biocontrol agents and as genetics tools. The content of the expanded fourth edition is divided into two parts: Part 1 contains review chapters dealing with the most important general concepts in molecular, applied and general prokaryote biology; Part 2 describes the known properties of specific taxonomic groups. Two completely new sections have been added to Part 1: bacterial communities and human bacteriology. The bacterial communities section reflects the growing realization that studies on pure cultures of bacteria have led to an incomplete picture of the microbial world for two fundamental reasons:

the vast majority of bacteria in soil, water and associated with biological tissues are currently not culturable, and that an understanding of microbial ecology requires knowledge on how different bacterial species interact with each other in their natural environment. The new section on human microbiology deals with bacteria associated with healthy humans and bacterial pathogenesis. Each of the major human diseases caused by bacteria is reviewed, from identifying the pathogens by classical clinical and non-culturing techniques to the biochemical mechanisms of the disease process. The 4th edition of *The Prokaryotes* is the most complete resource on the biology of prokaryotes.

Cuban Death-Lift - Randy Striker 2007-04-03

When Fidel Castro allows thousands of Cubans to depart for America in the Mariel Boatlift, he exports the worst criminals and undesirables of his country along with them. To monitor the situation, the CIA sends infiltrators to Cuba where they vanish without a trace. In desperation, the Agency turns to ex-Navy SEAL Dusky MacMorgan to go in and find out what happened. Amid the chaos and deception in Mariel's savage underworld, MacMorgan must keep on his toes and off the radar if he's going to discover the truth without disappearing himself.

Wild Crop Relatives: Genomic and Breeding Resources - Chittaranjan Kole 2011-08-27

Wild crop relatives are now playing a significant part in the elucidation and improvement of the genomes of their cultivated counterparts. This work includes comprehensive examinations of the status, origin, distribution, morphology, cytology, genetic diversity and available genetic and genomic resources of numerous wild crop relatives, as well as of their evolution and phylogenetic relationship. Further topics include their role as model plants, genetic erosion and conservation efforts, and their domestication for the purposes of bioenergy, phytomedicines, nutraceuticals and phytoremediation. *Wild Crop Relatives: Genomic and Breeding Resources* comprises 10 volumes on Cereals, Millets and Grasses, Oilseeds, Legume Crops and Forages, Vegetables, Temperate Fruits, Tropical and Subtropical Fruits, Industrial Crops, Plantation and Ornamental Crops, and Forest Trees. It contains 125 chapters written by nearly 400 well-known authors from about 40 countries.

Quaternary Vegetation Dynamics - Jürgen Runge 2021-11-29

This book celebrates the relaunch of the African Pollen Database, presents state-of-the-art of modern and ancient pollen data from sub-Saharan Africa, and promotes Open Access science. Pollen grains are powerful tools for the study of past vegetation dynamics because they preserve well within sedimentary deposits and have a huge diversity in ornamentation that allows different taxa to be determined. The reconstruction of past vegetation from the examination of ancient pollen records thus can be used to characterize the nature of past landscapes (e.g. abundance of forests vs. grasslands), provide insights into changes in biodiversity, and gain empirical evidence of vegetation response to climatic change and human activity. In this, the 35th Volume of "Palaeoecology of Africa", we bring together new data and extensive synthetic reviews to provide novel insights into the relationships between human evolution, human activity, climate change and vegetation dynamics during the Quaternary, the last 2.6 million years. Current and ongoing climate and land-use change is exerting pressure on modern vegetation formations and threatening the livelihoods and wellbeing of many peoples in Africa. In this book the focus is on the Quaternary because it is during this geological period that the modern vegetation formations developed into their current configurations against a backdrop of high magnitude global climate change (glacial-interglacial cycles), human evolution, and a growing human land-use footprint. In this book the latest information is presented and collated from around the African continent to parameterize past vegetation states, identify the drivers of vegetation change, and assess the vegetation resilience to change. To achieve this research from two broad themes are covered: (i) the present is the key to the past (i.e. studies which improve our understanding of modern environments so that we can better interpret evidence from the past), and (ii) the past is the key to the future (i.e. studies which unlock information on how and why vegetation changed in the past so one can better anticipate trajectories of future change). This Open Access book will provide a strong foundation for future research exploring past ecological, environmental and climatic change within Africa and the surrounding islands. The book is organized regionally (covering western, eastern, central, and southern Africa) and it contains specialized articles focused on particular topics (such as modern pollen-vegetation relationships and fire as a driver of vegetation change), as well as regional and pan-African syntheses drawing together decades of

research to assess key scientific questions (including the role of climate in driving vegetation change and the role of vegetation change in human evolution). These articles will be useful to students and teachers from high school to the highest level of university who are interested in the origins and dynamics of vegetation in Africa. Furthermore, it is also meant to provide societally relevant information that can act as an inspiration for the development of sustainable management practices for the future.

Management of Legionella in Water Systems - National Academies of Sciences, Engineering, and Medicine 2020-02-20

Legionnaires' disease, a pneumonia caused by the Legionella bacterium, is the leading cause of reported waterborne disease outbreaks in the United States. Legionella occur naturally in water from many different environmental sources, but grow rapidly in the warm, stagnant conditions that can be found in engineered water systems such as cooling towers, building plumbing, and hot tubs. Humans are primarily exposed to Legionella through inhalation of contaminated aerosols into the respiratory system. Legionnaires' disease can be fatal, with between 3 and 33 percent of Legionella infections leading to death, and studies show the incidence of Legionnaires' disease in the United States increased five-fold from 2000 to 2017. *Management of Legionella in Water Systems* reviews the state of science on Legionella contamination of water systems, specifically the ecology and diagnosis. This report explores the process of transmission via water systems, quantification, prevention and control, and policy and training issues that affect the incidence of Legionnaires' disease. It also analyzes existing knowledge gaps and recommends research priorities moving forward.

Tolerance Design - Clyde M. Creveling 2012-04-10

The work of contemporary Italian thinkers, what Roberto Esposito refers to as Italian Theory, is attracting increasing attention around the world. This book explores the reasons for its growing popularity, its distinguishing traits, and why people are turning to these authors for answers to real-world issues and problems. The approach he takes, in line with the keen historical consciousness of Italian thinkers themselves, is a historical one. He offers insights into the great "unphilosophical" philosophers of life—poets, painters, politicians and revolutionaries, filmmakers and literary critics—who have made Italian thought, from its beginnings, an "impure" thought. People like Machiavelli, Croce, Gentile, and Gramsci were all compelled to fulfill important political roles in the societies of their times. No wonder they felt that the abstract vocabulary and concepts of pure philosophy were inadequate to express themselves. Similarly, artists such as Dante, Leonardo Da Vinci, Leopardi, or Pasolini all had to turn to other disciplines outside philosophy in order to discuss and grapple with the messy, constantly changing realities of their lives. For this very reason, says Esposito, because Italian thinkers have always been deeply engaged with the concrete reality of life (rather than closed up in the introspective pursuits of traditional continental philosophy) and because they have looked for the answers of today in the origins of their own historical roots, Italian theory is a "living thought." Hence the relevance or actuality that it holds for us today. Continuing in this tradition, the work of Roberto Esposito is distinguished by its interdisciplinary breadth. In this book, he passes effortlessly from literary criticism to art history, through political history and philosophy, in an expository style that welcomes non-philosophers to engage in the most pressing problems of our times. As in all his works, Esposito is inclusive rather than exclusive; in being so, he celebrates the affirmative potency of life.

A Guide to Human Gene Therapy - Roland W. Herzog 2010

1. Non-viral gene therapy / Sean M. Sullivan --
2. Adenoviral vectors / Stuart A. Nicklin and Andrew H. Baker --
3. Retroviral vectors and integration analysis / Cynthia C. Bartholomae [und weitere] --
4. Lentiviral vectors / Janka Matrai, Marinee K.L. Chuah and Thierry VandenDriessche --
5. Herpes simplex virus vectors / William F. Goins [und weitere] --
6. Adeno-Associated Viral (AAV) vectors / Nicholas Muzyczka --
7. Regulatory RNA in gene therapy / Alfred S. Lewin --
8. DNA integrating vectors (Transposon, Integrase) / Lauren E. Woodard and Michele P. Calos --
9. Homologous recombination and targeted gene modification for gene therapy / Matthew Porteus --
10. Gene switches for pre-clinical studies in gene therapy / Caroline Le Guiner [und weitere] --
11. Gene therapy for central nervous system disorders / Deborah Young and Patricia A. Lawlor --
12. Gene therapy of hemoglobinopathies / Angela E. Rivers and Arun Srivastava --
13. Gene therapy for primary immunodeficiencies / Aisha Sauer, Barbara Cassani and Alessandro Aiuti --
14. Gene therapy for hemophilia / David Markusic, Babak Moghimi and Roland Herzog --
15. Gene therapy for obesity and diabetes / Sergei

Zolotukhin and Clive H. Wasserfall -- 16. Gene therapy for Duchenne muscular dystrophy / Takashi Okada and Shin'ichi Takeda -- 17. Cancer gene therapy / Kirsten A.K. Weigel-Van Aken -- 18. Gene therapy for autoimmune disorders / Daniel F. Gaddy, Melanie A. Ruffner and Paul D. Robbins -- 19. Gene therapy for inherited metabolic storage diseases / Cathryn Mah -- 20. Retinal diseases / Shannon E. Boye, Sanford L. Boye and William W. Hauswirth -- 21. A brief guide to gene therapy treatments for pulmonary diseases / Ashley T. Martino, Christian Mueller and Terence R. Flotte -- 22. Cardiovascular disease / Darin J. Falk, Cathryn S. Mah and Barry J. Byrne

ACS Style Guide - Anne M. Coghill 2006

In the time since the second edition of The ACS Style Guide was published, the rapid growth of electronic communication has dramatically changed the scientific, technical, and medical (STM) publication world. This dynamic mode of dissemination is enabling scientists, engineers, and medical practitioners all over the world to obtain and transmit information quickly and easily. An essential constant in this changing environment is the requirement that information remain accurate, clear, unambiguous, and ethically sound. This extensive revision of The ACS Style Guide thoroughly examines electronic tools now available to assist STM writers in preparing manuscripts and communicating with publishers. Valuable updates include discussions of markup languages, citation of electronic sources, online submission of manuscripts, and preparation of figures, tables, and structures. In keeping current with the changing environment, this edition also contains references to many resources on the internet. With this wealth of new information, The ACS Style Guide's Third Edition continues its long tradition of providing invaluable insight on ethics in scientific communication, the editorial process, copyright, conventions in chemistry, grammar, punctuation, spelling, and writing style for any STM author, reviewer, or editor. The Third Edition is the definitive source for all information needed to write, review, submit, and edit scholarly and scientific manuscripts.

Technical Drawing for Product Design - Stefano Tornincasa 2020-11-23

This book is intended for students, academics, designers, process engineers and CMM operators, and presents the ISO GPS and the ASME GD&T rules and concepts. The Geometric Product Specification (GPS) and Geometrical Dimensioning and Tolerancing (GD&T) languages are in fact the most powerful tools available to link the perfect geometrical world of models and drawings to the imperfect world of manufactured parts and assemblies. The topics include a complete description of all the ISO GPS terminology, datum systems, MMR and LMR requirements, inspection, and gauging principles. Moreover, the differences between ISO GPS and the American ASME Y14.5 standards are shown as a guide and reference to help in the interpretation of drawings of the most common dimensioning and tolerancing specifications. The book may be used for engineering courses and for professional grade programmes, and it has been designed to cover the fundamental geometric tolerancing applications as well as the more advanced ones. Academics and professionals alike will find it to be an excellent teaching and research tool, as well as an easy-to-use guide.

A Combined Data and Power Management Infrastructure - Jens Eickhoff

2013-06-13

This book describes the development and design of a unique combined data and power management infrastructure. The use in small satellites gives some particular requirements to the systems like potential hardware failure robustness and handling of different types of external analog and digital interfaces. These requirements lead to a functional merge between On Board Computer and the satellite's Power Control and Distribution Unit, which results in a very innovative design and even a patent affiliation. This book provides system engineers and university students with the technical knowledge as mix between technical brochure and a user guide.

Who are "Taxpayers" and Who Needs a "Taxpayer Identification Number"?, Form #05.013 - Sovereignty Education and Defense Ministry (SEDM) 2020-02-06

Attach this to financial account applications, job applications, etc. Shows why you don't need SSNs or TINs on government correspondence.

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Industrial Pharmaceutical Biotechnology - Heinrich Klefenz 2002-04-22

This volume focuses on pharmaceutical biotechnology as a key area of life sciences. The complete range of concepts, processes and technologies of biotechnology is applied in modern industrial pharmaceutical research, development and production. The results of genome sequencing and studies of biological-genetic function are combined with chemical, micro-electronic and microsystem technology to produce medical devices and diagnostic biochips. A multitude of biologically active molecules is expanded by additional novel structures created with newly arranged gene clusters and bio-catalytic chemical processes. New organisational structures in the co-operation of institutes, companies and networks enable faster knowledge and product development and immediate application of the results of research and process development. This book is the ideal source of information for scientists and engineers in research and development, for decision-makers in biotech, pharma and chemical corporations, as well as for research institutes, but also for founders of biotech companies and people working for venture capital corporations.

Proceedings of International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications - Vinit Kumar Gunjan 2020-10-17

This book gathers selected research papers presented at the International Conference on Recent Trends in Machine Learning, IOT, Smart Cities & Applications (ICMISC 2020), held on 29-30 March 2020 at CMR Institute of Technology, Hyderabad, Telangana, India. Discussing current trends in machine learning, Internet of things, and smart cities applications, with a focus on multi-disciplinary research in the area of artificial intelligence and cyber-physical systems, this book is a valuable resource for scientists, research scholars and PG students wanting formulate their research ideas and find the future directions in these areas. Further, it serves as a reference work anyone wishing to understand the latest technologies used by practicing engineers around the globe.

Santo Domingo - Otto Schoenrich 1918