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Chemical Analysis of Antibiotic Residues in Food Jul 21 2019 An insightful exploration of the key aspects concerning the chemical analysis of antibiotic residues in food The presence of excess residues from frequent antibiotic use in animals is not only illegal, but can pose serious health risks by contaminating products for human consumption such as meat and milk. Chemical Analysis of Antibiotic Residues in Food is a single-source reference for readers interested in the development of analytical methods for analyzing antibiotic residues in food. It covers themes that include quality assurance and quality control, antibiotic chemical properties, pharmacokinetics, metabolism, distribution, food safety regulations, and chemical analysis. In addition, the material presented includes background information valuable for understanding the choice of marker residue and target animal tissue to use for regulatory analysis. This comprehensive reference: Includes topics on general issues related to screening and confirmatory methods Presents updated information on food safety regulation based on routine screening and confirmatory methods, especially LC-MS Provides general guidance for method development, validation, and estimation of measurement uncertainty Chemical Analysis of Antibiotic Residues in Food is written and organized with a balance between practical use and theory to provide laboratories with a solid and reliable reference on antibiotic residue analysis. Thorough coverage elicits the latest scientific findings to assist the ongoing efforts toward refining analytical methods for producing safe foods of animal origin.

Principles & Practice of Assisted Reproductive Technology (3 Vols) Jun 12 2021 This three volume set is a comprehensive guide to Assisted Reproductive Technology (ART) for clinicians. Volume one begins with an introduction to infertility, describing physiology, endocrinology and infertility in both men and women. The following sections provide in depth discussion on ART, from ovulation induction and intrauterine insemination, to complications, outcomes and ethical issues. The second volume is dedicated to In Vitro Fertilisation (IVF) and related procedures, whilst volume three is an atlas of embryology. This practical manual is an invaluable reference for clinicians specialising in infertility management and includes nearly 1000 full colour photographs, each with a brief description to enhance understanding. Key points Three volume set complete guide to ART Each volume dedicated to specific topic Infertility, IVF & Related Procedures, and Atlas of Embryology Includes nearly 1000 photographs with descriptions Invaluable reference for practising clinicians

Contemporary Perspectives on Jane Jacobs Jan 27 2020 Jane Jacobs's famous book The Death and Life of Great American Cities (1961) has challenged the discipline of urban planning and led to a paradigm shift. Controversial in the 1960s, most of her ideas became generally accepted within a decade or so after publication, not only in North America but worldwide, as the articles in this volume demonstrate. Based on cross-disciplinary and transnational approaches, this book offers new insights into her complex and often contrarian way of thinking as well as analyses of her impact on urban planning theory and the consequences for planning practice. Now, more than 50 years after the initial publication, in a period of rapid globalisation and deregulated approaches in planning, new challenges arise. The contributions in this book argue that it is not possible simply to follow Jane Jacobs's ideas to the letter, but instead it is necessary to contextualize them, to look for relevant lessons for cities and planners, and critically to re-evaluate why and how some of her ideas might be updated. Bringing together an international team of scholars and writers, this volume develops conclusions based on new research as to how her work can be re-interpreted under different circumstances and utilized in the current debate about the proclaimed millennium of the city, the 21st century.

Miscellaneous Publication - National Bureau of Standards Jul 01 2020

SharePoint 2010 Development with Visual Studio 2010 Nov 05 2020 With SharePoint 2010, developers finally have the powerful, end-to-end development tools they need to build outstanding solutions quickly and painlessly. Whats more, those tools are built directly into the latest version of Visual Studio, the development platform most Microsoft developers already know. In this book, the Microsoft experts who created these tools show you how to take full advantage of them. The authors focus specifically on the SharePoint scenarios that Visual Studio 2010 now makes accessible to mainstream Microsoft developers. They assume no experience with SharePoint development and focus on SharePoint Foundation 2010: the low-cost version designed for organizations and departments of all kinds, not just large enterprises. SharePoint 2010 Development with Visual Studio 2010 shows how to get your solution up and running fast, and then extend it to meet your precise business requirements. Youll learn how to develop, package, and deploy robust SharePoint business collaboration applications without any unnecessary complexity or overhead. Following a practical, developer-focused introduction to Microsoft SharePoint 2010, youll learn about Visual Studio 2010 templates and tools that simplify the creation of SharePoint solutions The SharePoint object model and its most frequently used methods, properties, and events Using lists to store, manage, and share data Responding to events related to lists, features, items, or workflows Integrating external data with Business Data Connectivity Services Using content types that ship with SharePoint 2010and creating new ones Building multi-step workflows and custom forms that work with them Utilizing Web Parts to present different data and applications on the same page Customizing SharePoint pages or navigation with ASP.NET Packaging and deploying solutions, and customizing deployment to your unique requirements Whether youre just starting out with SharePoint development, upgrading from earlier versions, or building on experience with ASP.NET, this book will help you solve real problems and get real resultsfast!

Pro ASP.NET SharePoint 2010 Solutions May 23 2022 Youve run into this issue numerous times. You are developing an ASP.NET application, and you need to incorporate functionality that comes pre-packaged in SharePoint. Wikis, blogs, document management, user authentication, access managementcommon needs across a variety of solutions. Without guidance and examples, interacting with underlying SharePoint components can be challenging, and working with the different SharePoint APIs is complicated. This book will introduce you to a variety of techniques to master the art of developing ASP.NET applications that are built upon a SharePoint foundation. With these techniques you can start using SharePoint as a development platform to enhance and complement your ASP.NET development. Youll explore: Integration with SharePoint components The SharePoint/.NET/IIS implementation Configuration management Code Access Security Feature packaging Proper use of SharePoint APIs Advanced deployment techniques Pro ASP.NET Sharepoint 2010 walks you through all of the steps needed to successfully build and deploy ASP.NET solutions within the SharePoint platform. You'll then be able to greatly enhance your applications and build unique solutions that are a mixture of SharePoint and ASP.NET.

Professional SharePoint 2013 Development eBook and SharePoint-videos.com Bundle Nov 17 2021 Beginning SharePoint 2013 Development eBook and SharePoint-videos.com Bundle.

Fundamentals of Nano-Textile Science Oct 04 2020 Fundamentals of Nano-Textile Science provides a detailed overview of advanced nano-textiles methods, techniques, and treatments along with explanations of a wide range of applications. This book places emphasis on nanotechnology-based textile enhancements that provide high durability, better affinity, and more functionality in textile material and that overcomes the limitation of conventional processes in the textile industry. The first section of the book deals with the production method of nano-textile fibers. It elaborates how nano-techniques are used for producing textile fiber and discusses various pretreatment processes of textile materials using such methods as nano-scouring, nanobiophotoscouring, nano-bleaching, nano-softening, and nano-surface activation. The second section discusses the wide range of nanofinishing applications to make textile materials antimicrobial, flame retardant, UV-protected, etc. It also discusses different techniques and treatments applied on the surface of the finished product using plasma technology or layer-by-layer deposition techniques. This section also covers nano-based textile applications such as for sports clothing, military textiles, high-performance clothing, or smart wearable high-tech nano-textiles. In the last section, the book concludes with an overview of nanotechnological advancements being used for the management of textile effluents and for removing dyes from wastewater in textile processing, focusing on the health and safety perspective of nano-textiles. The book is written by highly experienced authors in this area and provides an immensely valuable resource for scientific researchers, academics, professionals, engineers, technologists and innovators working on designing and manufacturing textile materials. The volume will be an important resource for those who are looking for innovative production technologies

or the latest nanotechnology developments in the design and manufacturing of nano-textile materials. Key features: Provides a detailed theoretical overview of nano-textiles along with novel advanced techniques, methods, treatments for enhanced properties and applications of textiles. Covers relevant techniques applied on the surface of the finished textile product using plasma technology or layer-by-layer deposition techniques Introduces various nanofinishes and applications including for sports clothing, military textiles, high performance clothing or smart wearable high-tech textiles Describes wearable smart nano-textile parameters, types of materials used, applications, and future innovations for prevention of hazards and pandemic diseases Explores innovative methods and treatments for management or removal of textile waste

Advances in Visual Informatics Dec 26 2019 This book constitutes the refereed proceedings of the Third International Conference on Advances in Visual Informatics, IVIC 2013, held in Selangor, Malaysia, in November 2013. The four keynotes and 69 papers presented were carefully reviewed and selected from various submissions. The papers focus on four tracks: computer visions and engineering; computer graphics and simulation; virtual and augmented reality; and visualization and social computing.

SharePoint 2010 Field Guide Sep 27 2022 Hands-on solutions for common SharePoint 2010 challenges Aimed at the more than 100 million licensed SharePoint 2010 users, this indispensable field guide addresses an abundance of common SharePoint 2010 problems and offers proven solutions. A team of authors encourages you to customize SharePoint beyond the out-of-the-box functionality so that you can build more complex solutions to these challenges. You?ll discover intricate details and specific full-scale solutions that you can then implement to your own SharePoint 2010 solutions. Tackles a variety of SharePoint 2010 problems ranging from simple to complex, and offers sound solutions Details the SharePoint object model, reviews site provisioning solutions, and explores scalable applications Looks at UI design and branding, visual web parts, and PowerShell Discusses custom global navigation, field types, content types, and list templates SharePoint 2010 Field Guide provides you with the right direction for building solutions to SharePoint 2010 problems.

Improving Potassium Recommendations for Agricultural Crops Oct 16 2021 This open access book highlights concepts discussed at two international conferences that brought together world-renowned scientists to advance the science of potassium (K) recommendations for crops. There was general agreement that the potassium recommendations currently in general use are oversimplified, outdated, and jeopardize soil, plant, and human health. Accordingly, this book puts forward a significantly expanded K cycle that more accurately depicts K inputs, losses and transformations in soils. This new cycle serves as both the conceptual basis for the scientific discussions in this book and a framework upon which to build future improvements. Previously used approaches are critically reviewed and assessed, not only for their relevance to future enhancements, but also for their use as metrics of sustainability. An initial effort is made to link K nutrition in crops and K nutrition in humans. The book offers an invaluable asset for graduate students, educators, industry scientists, data scientists, and advanced agronomists.

Pro WCF 4 Jun 24 2022 Pro WCF 4.0: Practical Microsoft SOA Implementation is a complete guide to Windows Communication Foundation from the service-oriented architecture (SOA) perspective, showing you why WCF is important to service-oriented architecture and development. This book provides deep insight into the functionality of WCF, which shipped with .NET 4.0-like service discovery, routing service, simplified configuration, and other advanced features. Included in this title are informative examples that will aid the reader in understanding and implementing these important additions. This book also covers the unified programming model, reliable messaging, security, and the peer-to-peer programming model. You'll also learn how to move your current .NET remoting and web service applications to WCF, and how to integrate those applications with WCF 4. This book offers genuine insight into solving real enterprise problems using WCF and .NET 4.0.

Real World SharePoint 2010 Apr 22 2022 Proven real-world best practices from leading Microsoft SharePoint MVPs SharePoint enables Web sites to host shared workspaces and is a leading solution for Enterprise Content Management. The newest version boasts significant changes, impressive enhancements, and new features, requiring developers and administrators of all levels of experience to quickly get up to speed on the latest changes. This book is a must-have anthology of current best practices for SharePoint 2010 from 20 of the top SharePoint MVPs. They offer insider advice on everything from installation, workflow, and Web parts to business connectivity services, Web content management, and claims-based security. SharePoint 2010 boasts significant updates, new features, and numerous changes and this comprehensive overview gets you up to speed on all the latest enhancements Serves as an anthology of current best practices regarding SharePoint 2010 from 20 of the top SharePoint MVPs Offers helpful, real-world advice on such topics as business connectivity services, enterprise content management, Web content management, business intelligence, workflow, SharePoint Designer, Web parts, shared services, claims-based security, and more We all learn from experience, and with Real-World SharePoint 2010 you can learn from the experiences of 20 of the leading SharePoint MVPs!

Microsoft SharePoint 2010 Jul 25 2022 This book provides a fresh take on Microsoft's premier collaboration solution. A critical resource if you're developing on the SharePoint platform, this book features a complete focus on the new features and capabilities of SharePoint 2010. Through a thorough treatment of sites, web parts, data management, portal solutions, and business intelligence capabilities, you'll appreciate author Sahil Malik's concise yet highly readable text. With this book, you'll gain intermediate-level guidance for designing and deploying exciting business solutions based on Microsoft SharePoint 2010.

Advanced Plasma Spray Applications Jul 13 2021 Recently, plasma spray has been received a large number of attentions for various type of applications due to the nature of the plasma plume and deposition structure. The plasma gas generated by the arc, consists of free electrons, ionized atoms, some neutral atoms, and undissociated diatomic molecules. The temperature of the core of the plasma jet may exceed up to 30,000 K. Gas velocity in the plasma spray torch can be varied from subsonic to supersonic using converging-diverging nozzles. Heat transfer in the plasma jet is primarily the result of the recombination of the ions and re-association of atoms in diatomic gases on the powder surfaces and absorption of radiation. Taking advantages of the plasma plume atmosphere, plasma spray can be used for surface modification and treatment, especially for activation of polymer surfaces. I addition, plasma spray can be used to deposit nanostructures as well as advanced coating structures for new applications in wear and corrosion resistance. Some state-of-the-art studies of advanced applications of plasma spraying such as nanostructure coatings, surface modifications, biomaterial deposition, and anti wear and corrosion coatings are presented in this book.

Polysaccharide Building Blocks Sep 22 2019 This book is an archival reference for the evolving field ofbiomaterials and their applications in society, focusing on theircomposition, properties, characterization, chemistry andapplications in bioenergy, chemicals, and novel materials andbiomaterials. It has broad appeal due to the recentheightened awareness around bioenergy and biomass as potentialreplacements for petroleum feedstocks. The book isdivided into three parts: cellulose-based biomaterials, chitin andchitosan biomaterials, and hemicelluloses and otherpolysaccharides. Each chapter addresses a separatebiomaterial, discussing its chemical, physical, and biologicalattributes, and hones in on each compound's intrinsicsuitability for numerous chemicaltransformations. In the current quest for a "green"economy and resources, this book will help inspire scientiststowards novel sources for chemicals, materials,and energy in the years to come.

Oxford Guide to Low Intensity CBT Interventions Nov 24 2019 The Oxford Guide to Low Intensity CBT Interventions is the first ever comprehensive guide to Low Intensity CBT. It brings together researchers and clinicians who have led the way in developing evidence-based low intensity CBT treatments - treatments for those who have hitherto had no access to mental health services.

Expert SharePoint 2010 Practices Aug 26 2022 Expert SharePoint 2010 Practices is a valuable compendium of best practices, tips, and secrets straight from the most knowledgeable SharePoint gurus in the industry. Learn from the experts as you dive into topics like multitenancy, solution deployment, business intelligence, and administration. Our team of carefully chosen contributors, most with Microsoft's Most Valuable Professional (MVP) designation bestowed upon them, shares with you the secrets and practices that have brought them success in a wide variety of SharePoint scenarios. Each contributor is passionate about the power of SharePoint and wants to help you leverage the capabilities of the platform in your business—but in the proper way. Go beyond procedures and manuals, and benefit from hundreds of years of combined experience, which the authors of Expert SharePoint 2010 Practices provide in these pages. Learn from the masters and take control of SharePoint 2010 like you never have before with Expert SharePoint 2010 Practices!

Selected Water Resources Abstracts Aug 14 2021

Singapore PSLE Mathematics Extreme Drill Solutions (Yellowreef) Dec 06 2020

Autonomy and Ethnic Conflict in South and South-East Asia Apr 29 2020 This book uses empirical evidence from various case studies to examine the relationship between territorial and regional autonomy, the nation-state and ethnic conflict resolution in South and South-East Asia. The concept of territorial or regional autonomy holds centre stage in the literature on ethnic conflict settlement because it is supposed to be able to reconcile two paradoxical objectives: the preservation of the territorial integrity and sovereignty of the state, and the satisfaction of ethnic minorities' right to national self-determination. Critics argue, however, that autonomy may not be the panacea for ethnic conflict in all cases. The contributing authors begin with the concept of territorial or regional autonomy and subject it to a rigorous empirical analysis, which provides reliable evidence regarding the suitability of the autonomy solution to intractable ethnic conflicts. Drawing upon case studies from Kashmir, Assam, Sri Lanka, Aceh, Mindanao and Southern Thailand, this edited volume argues that autonomy arrangements may at best work to resolve only a handful of separatist ethnic conflicts in South and South-East Asia. This book will be of much interest to students of South and South-East Asia, Asian security, ethnic conflict, peace studies and IR in general.

Ten Chapters in Turbulence Sep 15 2021 Turbulence is ubiquitous in science, technology and daily life and yet, despite years of research, our understanding of its fundamental nature is still tentative and incomplete. More generally, the tools required for a deep understanding of strongly interacting many-body systems remain underdeveloped. Inspired by a research programme held at the Newton Institute in Cambridge, this book contains reviews by leading experts that summarize our current understanding of the nature of turbulence from theoretical, experimental, observational and computational points of view. The articles cover a wide range of topics, including the scaling and organized motion in wall turbulence, small scale structure, dynamics and statistics of homogeneous turbulence, turbulent transport and mixing, and effects of rotation, stratification and

magnetohydrodynamics, as well as superfluidity. The book will be useful to researchers and graduate students interested in the fundamental nature of turbulence at high Reynolds numbers.

Palm Trees and Fruits Residues Mar 29 2020 Palm Trees and Fruits Residues: Recent Advances for Integrated and Sustainable Management places the wastes of palm trees and fruit residues in the international context of sustainable development, providing sustainable applications that are detailed based on sector to help readers from specific fields identify applications. Furthermore, successful processing case studies using valorization are presented. As the expansion of palm tree fruit crops processing industries (manufacture of syrup, honey, non-alcoholic beverages, flours, confectionery products, fruit paste, etc.) is generating growing quantities of wastes in different forms, this book covers sustainable aspects. Written by an international team of contributors, this title is aimed at professionals and enterprises who aspire to develop real, high-scale industrial applications for palm tree and fruit residue valorization. Includes palm tree wastes and fruit processing by-products, their quantification and classification Brings identification, quantification and characterization of palm-tree and fruit wastes Thoroughly explores biotechnological, agricultural, environmental and energy applications of fruit processing by-products Contains case studies of a palm tree fruit processing by-products valorization

Beginning SharePoint 2010 Development Oct 28 2022 Discover how to take advantage of the many new features in SharePoint 2010 SharePoint 2010 is a significant leap forward from the 2007 release, and 'you will find that there are a ton of features built into the platform for you to leverage in your solution development. Because SharePoint is a broad platform that covers a lot, this book also covers quite a bit of ground. As a Wrox Beginning book, the goal of Beginning SharePoint 2010 Development is to get you started with many of the fundamentals so that you can continue on to advanced programming beyond this book. The book's goal is to quickly take you from the basics of SharePoint, to installing and configuring a development environment, and then into how you can develop for SharePoint. The book is heavy on coding exercises, but tries to stick to a common set of .NET patterns to ensure you walk away with understanding the different ways in which you can code for SharePoint. Moving from beginning to advanced means that you can expect the walkthroughs and chapters to become increasingly more complex within each chapter and throughout the book. The walkthroughs have been created to be concise and to guide you through all of the steps you must accomplish to complete a coding task. Beginning SharePoint 2010 Development is aimed at the developer who is new to SharePoint. The book assumes you have some programming experience and a passion to learn how to develop for SharePoint. But this book does not assume that you've programmed against SharePoint before. With regard to your general development background, the two assumptions in this book are that you have some familiarity with Web development, and you have an understanding of .NET programming. With regard to Web development, this book assumes that you understand HTML, and may have an understanding of Cascading Style Sheets (CSS), Extensible Markup Language/Extensible Stylesheet Language (XML/XSL), and dynamic languages such as JavaScript. You may have a light understanding of ASP.NET and are looking to apply this knowledge to the SharePoint space. In any case, you have some understanding of the fundamentals of Web and .NET development, and are looking to apply those to the SharePoint space.

Environmental Nanotechnology Mar 09 2021 This is the second volume on Environmental Nanotechnology. The first chapter discusses the synthesis of nanomaterial and mainly the green synthesis of inorganic nanomaterials. Furthermore, a comperative discussion about resistive and capacitive measurement of nano-based biosensor is reviewed and the efficient delivery of nutraceutical with the help of nano-vehicles are explained. Moreover, the book also includes reviews on such topics as nanopharmaceuticals, health benefits and the toxic impact of heavy metal nanomaterials and the impact of several nanomaterials on plant abiotic stress and have focussed on the long term impacts of nanomaterials on agroecosystems. The reader will also find presentations on molecularly imprinted polymeric nanocomposites, critical and comparative comments on Nano-biosensors and Nano-aptasensors and on applications of nanotechnology for the remediation and purification of water with a main focus on drinking water. The last chapter presents a comprehensive review on plasmonic nanoparticle based sensors whereby the authors have hypothesized the future applications in the environment which can be plausible in the near future.

Microsoft SharePoint 2010 Development with Visual Studio 2010 Expert Cookbook Feb 20 2022 Develop, debug, and deploy business solutions for SharePoint applications using Visual Studio 2010 with this book and ebook.

Sparse Modeling Aug 22 2019 Sparse models are particularly useful in scientific applications, such as biomarker discovery in genetic or neuroimaging data, where the interpretability of a predictive model is essential. Sparsity can also dramatically improve the cost efficiency of signal processing. Sparse Modeling: Theory, Algorithms, and Applications provides an introduction to the growing field of sparse modeling, including application examples, problem formulations that yield sparse solutions, algorithms for finding such solutions, and recent theoretical results on sparse recovery. The book gets you up to speed on the latest sparsity-related developments and will motivate you to continue learning about the field. The authors first present motivating examples and a high-level survey of key recent developments in sparse modeling. The book then describes optimization problems involving commonly used sparsity-enforcing tools, presents essential theoretical results, and discusses several state-of-the-art algorithms for finding sparse solutions. The authors go on to address a variety of sparse recovery problems that extend the basic formulation to more sophisticated forms of structured sparsity and to different loss functions. They also examine a particular class of sparse graphical models and cover dictionary learning and sparse matrix factorizations.

New Challenges and Industrial Applications for Corrosion Prevention and Control Aug 02 2020 Metals are used at an extremely high rate in the industrial and manufacturing fields. Exemplary properties including strength and ductility have made this material highly dynamic; however, the risk of corrosion remains a vital issue. The study of corrosion prevention has attracted interest from researchers and professionals as new technologies are emerging that can assist in the prevention of material destruction. However, research is lacking on the application of these protective technologies within specific fields. New Challenges and Industrial Applications for Corrosion Prevention and Control provides emerging research exploring the theoretical and practical aspects of protective methods against corrosion and the implementation of these techniques within a wide span of professional disciplines. Featuring coverage on a broad range of topics such as molecular modeling, surface treatments, and biomaterials, this book is ideally designed for engineers, industrial chemists, material scientists, researchers, engineers, academicians, practitioners, and students seeking current research on the technological advancements in corrosion protection in various professional scopes.

Containerisation International May 31 2020

Mastering Visual Studio .NET Mar 21 2022 A detailed handbook for experienced developers explains how to get the most out of Microsoft's Visual Studio .NET, offering helpful guidelines on how to use its integrated develpment environment, start-up templates, and other features and tools to create a variety of applications, including Web services. Original. (Advanced)

Graph-Theoretic Concepts in Computer Science May 11 2021 This book constitutes the thoroughly refereed post-conference proceedings of the 36th International Workshop on Graph-Theoretic Concepts in Computer Science, WG 2010, held in Zarós, Crete, Greece, in June 2010. The 28 revised full papers presented together with two invited papers were carefully reviewed and selected from 94 initial submissions. The papers feature original results on all aspects of graph-theoretic concepts in Computer Science, e.g. structural graph theory, sequential, parallel, randomized, parameterized, and distributed graph and network algorithms and their complexity, graph grammars and graph rewriting systems, graph-based modeling, graph-drawing and layout, random graphs, diagram methods, and support of these concepts by suitable implementations - as well as applications of graph-theoretic concepts in Computer Science.

Empty Buckets and Overflowing Pits Feb 08 2021 This book provides a multi-level and multi-dimensional insight into urban water and sanitation development by analyzing sector reforms in Africa. With the recent events in mind - water shortages in Cape Town, widespread cholera in Haiti, mass-migration from low-income countries, etc. – it elaborates a pressing topic which is directly linked to the precarious living conditions of the urban poor in the developing countries. It is urgent to acknowledge the proposed findings and recommendations of the book which will help to improve the situation of potential refugees in their home countries with a realistic vision for the development of the most basic of all life supporting services. So many efforts to reverse the negative trend in water and sanitation development have failed or targets have been repeatedly missed by far without notable consequences for decision makers on different levels and institutions. It has unnecessarily consumed many young lives, contributed to keep billions in poverty until today and fostered discrimination of women. The knowledge gap and the confusion in the sector lined out in the book becomes evident when a national leader in a low-income country declares a state of emergency in urban water and sanitation while at the same time global monitoring publishes an access figure for urban water of over 90% for the same country. It is time to change this with an effective sector development concept for our partner countries and a more realistic discourse on global level. The book argues for a sweeping rethinking and combines extended local knowledge, lessons learned from history in advanced countries and thorough research on reforms in Francophone and Anglophone developing countries. This was possible because the writer was working in Sub-Saharan partner countries for almost 30 years as an integrated long term advisor in different sector institutions (ministry, regulator, financing basket and different sizes of utilities) and had the opportunity to cooperate closely with the main development partners. The reader has the opportunity to obtain a comprehensive understanding of how the sector works and sector institutions in low-income countries function and can discover the reasons behind success and failures of reforms. The book also covers issues which have a significant influence on urban water and sanitation development but are hardly the subject of discussions. It helps to make the shortcomings of the water and sanitation discourse more apparent and assist institutions to move beyond their present perceptions and agendas. All of this makes the book different from other literature about urban water and sanitation in the developing world.

Research Anthology on Multi-Industry Uses of Genetic Programming and Algorithms Feb 26 2020 Genetic programming is a new and evolutionary method that has become a novel area of research within artificial intelligence known for automatically generating high-quality solutions to optimization and search problems. This automatic aspect of the algorithms and the mimicking of natural selection and genetics makes genetic programming an intelligent component of problem solving that is highly regarded for its efficiency and vast capabilities. With the ability to be modified and adapted, easily distributed, and effective in large-scale/wide variety of problems, genetic algorithms and programming can

be utilized in many diverse industries. This multi-industry uses vary from finance and economics to business and management all the way to healthcare and the sciences. The use of genetic programming and algorithms goes beyond human capabilities, enhancing the business and processes of various essential industries and improving functionality along the way. The Research Anthology on Multi-Industry Uses of Genetic Programming and Algorithms covers the implementation, tools and technologies, and impact on society that genetic programming and algorithms have had throughout multiple industries. By taking a multi-industry approach, this book covers the fundamentals of genetic programming through its technological benefits and challenges along with the latest advancements and future outlooks for computer science. This book is ideal for academicians, biological engineers, computer programmers, scientists, researchers, and upper-level students seeking the latest research on genetic programming.

Mobile Speech and Advanced Natural Language Solutions Jan 19 2022 "Mobile Speech and Advanced Natural Language Solutions" presents the discussion of the most recent advances in intelligent human-computer interaction, including fascinating new study findings on talk-in-interaction, which is the province of conversation analysis, a subfield in sociology/sociolinguistics, a new and emerging area in natural language understanding. Editors Amy Neustein and Judith A. Markowitz have recruited a talented group of contributors to introduce the next generation natural language technologies for practical speech processing applications that serve the consumer's need for well-functioning natural language-driven personal assistants and other mobile devices, while also addressing business' need for better functioning IVR-driven call centers that yield a more satisfying experience for the caller. This anthology is aimed at two distinct audiences: one consisting of speech engineers and system developers; the other comprised of linguists and cognitive scientists. The text builds on the experience and knowledge of each of these audiences by exposing them to the work of the other.

Issues in Networks Research and Application: 2011 Edition Jun 19 2019 Issues in Networks Research and Application: 2011 Edition is a ScholarlyEditions' eBook that delivers timely, authoritative, and comprehensive information about Networks Research and Application. The editors have built Issues in Networks Research and Application: 2011 Edition on the vast information databases of ScholarlyNews.' You can expect the information about Networks Research and Application in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Networks Research and Application: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions' and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Design and Modeling of Low Power VLSI Systems Dec 18 2021 Very Large Scale Integration (VLSI) Systems refer to the latest development in computer microchips which are created by integrating hundreds of thousands of transistors into one chip. Emerging research in this area has the potential to uncover further applications for VSLI technologies in addition to system advancements. Design and Modeling of Low Power VLSI Systems analyzes various traditional and modern low power techniques for integrated circuit design in addition to the limiting factors of existing techniques and methods for optimization. Through a research-based discussion of the technicalities involved in the VLSI hardware development process cycle, this book is a useful resource for researchers, engineers, and graduate-level students in computer science and engineering.

Handbook of Research on Recent Perspectives on Management, International Trade, and Logistics Apr 10 2021 In this era of globalization, entrepreneurship and its implications on international trade and supply chain management are becoming more critical. In today's change-oriented and complex business environment, both entrepreneurs and managers need to keep up with the latest developments around them. With the help of globalization, it is getting more attractive for entrepreneurs to generate innovative ideas to run business both nationally and internationally. Competitive advantages and the key for sustainable growth for globally founded institutions lies behind effective supply chain management originating from a single idea about establishing a company and the process to the end goal of reaching consumers. This focus on entrepreneurship, business, and supply chain comes at a time when rapid technological advances are continually being made. The Handbook of Research on Recent Perspectives on Management, International Trade, and Logistics reveals the latest data based on research on the issues of entrepreneurship, innovation, contemporary management techniques, and global supply chain management. Chapters include topics such as the effective management of the supply chain, supply chain modeling, e-business solutions, digitalizing the supply chain process, e-business applications, and more. This book is ideal for managers, executives, supply chain specialists, entrepreneurs, business professionals, researchers, academicians, and students interested in the latest findings in international trade, management, logistics, and business.

Pro SharePoint with jQuery Sep 03 2020 Pro SharePoint with jQuery is all about how to work seamlessly with the two popular technologies to create rich and interactive web parts, application pages, and more. In this book, author Phill Duffy provides complete, meaningful and realistic examples to really help you understand the key concepts and their integration points. Inside, you'll find all the tools and resources you need to use jQuery to provide the next level of SharePoint functionality. Learn what it takes to get ready to use jQuery, how to create rich, responsive, and highly functional user interfaces, how to call the SharePoint web services and work with HTML elements, and much more with Pro SharePoint with jQuery. Takes you through the different ways of integrating jQuery into your SharePoint environment Provides various levels of projects to show off the extensive capabilities of jQuery within SharePoint Teaches you how to provide rich, fluent and interactive jQuery-enabled user interfaces

Nanoparticle- and Microparticle-based Delivery Systems Oct 24 2019 Recent developments in nanoparticle and microparticle delivery systems are revolutionizing delivery systems in the food industry. These developments have the potential to solve many of the technical challenges involved in creating encapsulation, protection, and delivery of active ingredients, such as colors, flavors, preservatives, vitamins, minerals, and nutraceuticals. Nanoparticle- and Microparticle-based Delivery Systems: Encapsulation, Protection and Release of Active Compounds explores various types of colloidal delivery systems available for encapsulating active ingredients, highlighting their relative advantages and limitations and their use. Written by an international authority known for his clear and rigorous technical writing style, this book discusses the numerous kinds of active ingredients available and the issues associated with their encapsulation, protection, and delivery. The author takes a traditional colloid science approach and emphasizes the practical aspects of formulation of particulate- and emulsion-based delivery systems with food applications. He then covers the physicochemical and mechanical methods available for manufacturing colloidal particles, highlighting the importance of designing particles for specific applications. The book includes chapters devoted specifically to the three major types of colloidal delivery systems available for encapsulating active ingredients in the food industry: surfactant-based, emulsion-based, and biopolymer-based. It then reviews the analytical tools available for characterizing the properties of colloidal delivery systems, presents the mathematical models for describing their properties, and highlights the factors to consider when selecting an appropriate delivery system for a particular application backed up by specific case studies. Based on insight from the author's own experience, the book describes why delivery systems are needed, the important factors to consider when designing them, methods of characterizing them, and specific examples of the range of food-grade delivery systems available. It gives you the necessary knowledge, understanding, and appreciation of developments within the current research literature in this rapidly growing field and the confidence to perform reliable experimental investigations according to modern international standards.

Next Generation Data Technologies for Collective Computational Intelligence Jan 07 2021 This book focuses on next generation data technologies in support of collective and computational intelligence. The book brings various next generation data technologies together to capture, integrate, analyze, mine, annotate and visualize distributed data – made available from various community users – in a meaningful and collaborative for the organization manner. A unique perspective on collective computational intelligence is offered by embracing both theory and strategies fundamentals such as data clustering, graph partitioning, collaborative decision making, self-adaptive ant colony, swarm and evolutionary agents. It also covers emerging and next generation technologies in support of collective computational intelligence such as Web 2.0 social networks, semantic web for data annotation, knowledge representation and inference, data privacy and security, and enabling distributed and collaborative paradigms such as P2P, Grid and Cloud Computing due to the geographically dispersed and distributed nature of the data. The book aims to cover in a comprehensive manner the combinatorial effort of utilizing and integrating various next generations collaborative and distributed data technologies for computational intelligence in various scenarios. The book also distinguishes itself by assessing whether utilization and integration of next generation data technologies can assist in the identification of new opportunities, which may also be strategically fit for purpose.