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The Steampunk User's Manual SPARK 2014 User's Guide Information Resources in Toxicology, Volume 1: Background, Resources, and Tools Computational Science and Its Applications - ICCSA 2014 Electric and Plug-In Hybrid Vehicles Wireless Sensor Networks A Research Guide to Cartographic Resources Numerical Models for Submerged Breakwaters Water Safety, Security and Sustainability Concepts, Applications, Experimentation and Analysis of Wireless Sensor Networks Spark 2014 User's Guide Discrete Event Simulation for Health Technology Assessment Earthquake Engineering for Dams and Reservoirs Simulation and Testing for Vehicle Technology Towards Green Marine Technology and Transport Smart Economy in Smart African Cities Renewable Energies Offshore A Brief Guide to Smart Thinking The use of consumer neuroscience in aroma marketing HCI for Children with Disabilities Composite Blade Structural Analyzer (COBSTRAN) User's Manual Environmental Water Requirements in Mountainous Areas Cases on Electronic Record Management in the ESARBICA Region Crime and Criminal Justice Ships and Offshore Structures XIX Controlling the Morphology of Polymers Computational Modelling of Concrete and Concrete Structures Ocean Wave Dynamics Proceedings of the 14th International Scientific Conference: Computer Aided

Engineering Application of Anti-manipulation Law to EU Wholesale Energy Markets and Its Interplay with EU Competition Law
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Voices Past and Present - Studies of Involved, Speech-related and Spoken Texts
Clinical Assessment of Malingering and Deception, Fourth Edition
Modelling, Computation and Optimization in Information Systems and Management Sciences

The Steampunk User's Manual 2015-11-25 this comprehensive guide to steampunk creations of all kinds offers inspiration and practical tips for bringing your own retro futuristic visions to life whether you re a newbie to the world of steampunk or a long time enthusiast of airships goggles and mad scientists the steampunk user s manual is essential reading the popular subgenre of science fiction has grown into a cultural movement one that invites fans to let their imaginations go wild in this volume jeff vandermeer the renowned expert in all things steampunk presents a practical and inspirational guidance for finding your own path into this realm including sections on art fashion architecture crafts music performance and storytelling the steampunk user s manual provides a conceptual how to guide on everything from the utterly doable to the completely over the top

SPARK 2014 User's Guide 2018-02-14 spark 2014 is a programming language and a set of verification tools designed to meet the needs of high assurance software development spark 2014 is based on ada 2012 both subsetting the language to remove features that defy verification but also extending the system of contracts and aspects to support modular formal verification this manual is available online for free at adacore com this manual is printed in grayscale

Information Resources in Toxicology, Volume 1: Background, Resources, and Tools 2020-05-16 this new fifth edition of information resources in toxicology offers a consolidated entry portal for the study research and practice of toxicology both volumes represents a unique wide ranging curated international annotated bibliography and directory of major

resources in toxicology and allied fields such as environmental and occupational health chemical safety and risk assessment the editors and authors are among the leaders of the profession sharing their cumulative wisdom in toxicology s subdisciplines this edition keeps pace with the digital world in directing and linking readers to relevant websites and other online tools due to the increasing size of the hardcopy publication the current edition has been divided into two volumes to make it easier to handle and consult volume 1 background resources and tools arranged in 5 parts begins with chapters on the science of toxicology its history and informatics framework in part 1 part 2 continues with chapters organized by more specific subject such as cancer clinical toxicology genetic toxicology etc the categorization of chapters by resource format for example journals and newsletters technical reports organizations constitutes part 3 part 4 further considers toxicology s presence via the internet databases and software tools among the miscellaneous topics in the concluding part 5 are laws and regulations professional education grants and funding and patents volume 2 the global arena offers contributed chapters focusing on the toxicology contributions of over 40 countries followed by a glossary of toxicological terms and an appendix of popular quotations related to the field the book offered in both print and electronic formats is carefully structured indexed and cross referenced to enable users to easily find answers to their questions or serendipitously locate useful knowledge they were not originally aware they needed among the many timely topics receiving increased emphasis are disaster preparedness nanotechnology omics risk assessment societal implications such as ethics and

the precautionary principle climate change and children s environmental health introductory chapters provide a backdrop to the science of toxicology its history the origin and status of toxicoinformatics and starting points for identifying resources offers an extensive array of chapters organized by subject each highlighting resources such as journals databases organizations and review articles includes chapters with an emphasis on format such as government reports general interest publications blogs and audiovisuals explores recent internet trends web based databases and software tools in a section on the online environment concludes with a miscellany of special topics such as laws and regulations chemical hazard communication resources careers and professional education k 12 resources funding poison control centers and patents paired with volume two which focuses on global resources this set offers the most comprehensive compendium of print digital and organizational resources in the toxicological sciences with over 120 chapters contributions by experts and leaders in the field

Computational Science and Its Applications - ICCSA 2014 2014-07-03 the six volume set Incs 8579 8584 constitutes the refereed proceedings of the 14th international conference on computational science and its applications iccsa 2014 held in guimarães portugal in june july 2014 the 347 revised papers presented in 30 workshops and a special track were carefully reviewed and selected from 1167 initial submissions the 289 papers presented in the workshops cover various areas in computational science ranging from computational science technologies to specific areas of computational science such as computational

geometry and security

Electric and Plug-In Hybrid Vehicles 2015-06-12 this book is designed as an interdisciplinary platform for specialists working in electric and plug in hybrid electric vehicles powertrain design and development and for scientists who want to get access to information related to electric and hybrid vehicle energy management efficiency and control the book presents the methodology of simulation that allows the specialist to evaluate electric and hybrid vehicle powertrain energy flow efficiency range and consumption the mathematics behind each electric and hybrid vehicle component is explained and for each specific vehicle the powertrain is analyzed and output results presented through the use of specific automotive industrial software avl cruise ipg carmaker avl concerto this methodology of electric and hybrid powertrain design serves to broaden understanding of how the energy flow efficiency range and consumption of these vehicles can be adjusted updated and predicted via development processes

Wireless Sensor Networks 2016-03-02 this book focuses on the principles of wireless sensor networks wsns their applications and their analysis tools with meticulous attention paid to definitions and terminology this book presents the adopted technologies and their manufacturers in detail making wsns tangible for the reader in introductory computer networking books chapter sequencing follows the bottom up or top down architecture of the 7 layer protocol this book addresses subsequent steps in this process both horizontally and vertically thus fostering a clearer and deeper understanding through chapters that elaborate

on wsn concepts and issues with such depth this book is intended for a wide audience it is meant to be a helper and motivator for senior undergraduates postgraduates researchers and practitioners it lays out important concepts and wsn relate applications uses appropriate literature to back research and practical issues and focuses on new trends senior undergraduate students can use it to familiarize themselves with conceptual foundations and practical project implementations for graduate students and researchers test beds and simulators provide vital insights into analysis methods and tools for wsns lastly in addition to applications and deployment practitioners will be able to learn more about wsn manufacturers and components within several platforms and test beds

A Research Guide to Cartographic Resources 2018-09-22 the interdisciplinary uses of traditional cartographic resources and modern gis tools allow for the analysis and discovery of information across a wide spectrum of fields a research guide to cartographic resources navigates the numerous american and canadian cartographic resources available in print and online offering researchers academics and students with information on how to locate and access the large variety of resources new and old dozens of different cartographic materials are highlighted and summarized along with lists of map libraries and geospatial centers and related professional associations a research guide to cartographic resources consists of 18 chapters two appendices and a detailed index that includes place names and libraries structured in a manner consistent with most reference guides including cartographic categories such as atlases dictionaries gazetteers handbooks maps plans gis data and other

related material almost all of the resources listed in this guide are categorized by geography down to the county level making efficient work of the type of material required to meet the information needs of those interested in researching place specific cartographic related resources additionally this guide will help those interested in not only developing a comprehensive collection in these subject areas but get an understanding of what materials are being collected and housed in specific map libraries geospatial centers and their related websites of particular value are the sections that offer directories of cartographic and gis libraries as well as comprehensive lists of geospatial datasets down to the county level this volume combines the traditional and historical collections of cartography with the modern applications of gis based maps and geospatial datasets

Numerical Models for Submerged Breakwaters 2015-11-24 numerical models for submerged breakwaters coastal hydrodynamics and morphodynamics discusses the practice of submerged breakwaters an increasingly popular tool used as a coastal defense system because of their amenity and aesthetics as compared to common emerged beach protection measures the book is the perfect guide for experienced professionals who wish to keep abreast of the latest best practices or those who are entering the field and need a reference explaining new and traditional numerical methodologies for designing submerged breakwaters and measuring their performance in addition the book provides case studies examples and practical methods for data selection and pre processing model setup calibration and analysis case studies and worked out examples illustrate different concepts

and methods offers practical methods for data selection and pre processing provides simplified prediction tools for practical applications

Water Safety, Security and Sustainability 2021-07-14 this book focuses on threats especially contaminants to drinking water and the supply system especially in municipalities but also in industrial and even residential settings the safety security and suitability landscape can be described as dynamic and complex stemming from necessity and hence culpability due to the emerging threats and risks vis a vis globalization resulting in new forms of contaminants being used due to new technologies the book provides knowledge and guidance for engineers scientists designers researchers and students who are involved in water sustainability and study of security issues this book starts out with basics of water usage current statistics and an overview of water resources the book then introduces different scenarios of safety and security and areas that researchers need to focus following that the book presents different types of contaminants inadvertent intentional or incidental the next section presents different methodologies of contamination sensing detection and remediation strategies as per guidance and standards set globally the book then concludes with selected chapters on water management including critical infrastructure that is critical to maintaining safe water supplies to cities and municipalities each chapter includes descriptive information for professionals in their respective fields the breadth of chapters offers insights into how science physical natural and social and technology can support new developments to manage the complexity resident within the evolving threat and risk landscape

Concepts, Applications, Experimentation and Analysis of Wireless Sensor Networks

2023-02-13 the third edition of this hands on textbook pursues the focus on the principles of wireless sensor networks wsns their applications their protocols and standards and their analysis and test tools a meticulous care has been accorded to the definitions and terminology to make wsns felt and seen the adopted technologies as well as their manufacturers are presented in detail in introductory computer networking books chapters sequencing follows the bottom up or top down architecture of the seven layers protocol this book is some more steps after both horizontally and vertically the view and understanding are getting clearer chapters ordering is based on topics significance to the elaboration of wireless sensor networks wsns concepts and issues this book is intended for a wide audience it is meant to be help and motivate for both the senior undergraduates postgraduates researchers and practitioners concepts and wsns related applications are laid out research and practical issues are backed by appropriate literature and new trends are put under focus for senior undergraduate students it familiarizes with conceptual foundations applications and practical projects implementations for graduate students and researchers energy efficient routing protocols transport layer protocols and cross layering protocols approach are presented testbeds and simulators provide a must follow emphasis on the analysis methods and tools for wsns for practitioners besides applications and deployment the manufacturers and components of wsns at several platforms and testbeds are fully explored

Spark 2014 User's Guide 2017-06-06 spark 2014 is a programming language and a set of

verification tools designed to meet the needs of high assurance software development spark 2014 is based on ada 2012 both subsetting the language to remove features that defy verification but also extending the system of contracts and aspects to support modular formal verification the new aspects support abstraction and refinement and facilitate deep static analysis to be performed including flow analysis and formal verification of an implementation against a specification spark 2014 is a much larger and more flexible language than its predecessor spark 2005 the language can be configured to suit a number of application domains and standards from server class high assurance systems such as air traffic management applications to embedded hard real time critical systems such as avionic systems complying with do 178c level a a major feature of spark 2014 is the support for a mixture of proof and other verification methods such as testing which facilitates in particular the use of unit proof in place of unit testing an approach now formalized in do 178c and the do 333 formal methods supplement certain units may be formally proven and other units validated through testing

Discrete Event Simulation for Health Technology Assessment 2015-10-16 discover how to apply des to problems encountered in htadiscrete event simulation des has traditionally been used in the engineering and operations research fields the use of des to inform decisions about health technologies is still in its infancy written by specialists at the forefront of this area discrete event simulation for health techno

Earthquake Engineering for Dams and Reservoirs 2023-09-25 earthquake engineering for

dams and reservoirs is an invaluable source for any engineer or designer tasked with building retrofitting or maintaining dams in all seismically active regions to make decisions on the type of dam structure required for new projects and understand the issues that face existing dams and how to mitigate them

Simulation and Testing for Vehicle Technology 2016-05-17 the book includes contributions on the latest model based methods for the development of personal and commercial vehicle control devices the main topics treated are application of simulation and model design to development of driver assistance systems physical and database model design for engines motors powertrain undercarriage and the whole vehicle new simulation tools methods and optimization processes applications of simulation in function and software development function and software testing using hil mil and sil simulation application of simulation and optimization in application of control devices automation approaches at all stages of the development process

Towards Green Marine Technology and Transport 2015-09-04 towards green marine technology and transport covers recent developments in marine technology and transport the book brings together a selection of papers reflecting fundamental areas of recent research and development in the fields of ship hydrodynamics marine structures ship design shipyard technology ship machinery maritime transportation

Smart Economy in Smart African Cities 2019-02-21 this book highlights the use of information and communication technology ict infrastructures in order to develop smart cities

and produce smart economies in africa it discusses a robust set of concepts including smart planning smart infrastructure development smart economic development smart environmental sustainability smart social development resilience and smart peace and security in several african cities by drawing on the accumulated knowledge on various conditions that make cities smart green livable and healthy it helps in the planning design and management of african urbanization in turn it fosters the development of e commerce e education e governance etc the rapid development of ict infrastructures facilitates the creation of smart economies in digitally served cities and towns through smart urban planning smart infrastructures smart land tenure and smart urban policies in the long term this can reduce emissions of co2 promote the creation of low carbon cities reduce land degradation and promote biodiversity

Renewable Energies Offshore 2015-09-07 renewable energies offshore includes the papers presented in the 1st international conference on renewable energies offshore renew2014 held in lisbon 24 26 november 2014 the conference is a consequence of the importance of the offshore renewable energies worldwide and an opportunity to contribute to the exchange of information on the dev

A Brief Guide to Smart Thinking 2020-04-02 each book is summarised to convey a brief idea of what each one has to offer the interested reader while a speed read for each book delivers a quick sense of what each book is like to read and a highly compressed summary of the main points of the book in question the titles covered include thought provoking classics

on psychology mindfulness rationality the brain mathematical and economic thought and practical philosophy the selection includes books about self improvement as well as historically interesting accounts of how the mind works titles included go back as far as the epictetus classic the enchiridion and bertrand russell s charming the abc of relativity and proceed through classics such as edward de bono s lateral thinking and into the digital era with titles such as the shallows and big data the books are arranged chronologically which draws attention to some of the interesting juxtapositions and connections between them some of the titles included are freakonomics by steven d levitt blink the power of thinking without thinking by malcolm gladwell sapiens a brief history of humankind by yuval noah harari the organized mind thinking straight in the age of information overload by daniel j levitin the descent of man by grayson perry how the mind works by steven pinker black box thinking why some people never learn from their mistakes but some do by matthew syed we should all be feminists by chimamanda ngozi adichie guns germs and steel the fates of human societies by jared diamond the black swan the impact of the highly improbable by nassim nicholas taleb man s search for meaning by viktor e frankl the news a user s manual by alain de botton mindware tools for smart thinking by richard e nisbett the abc of relativity by bertrand russell the psychopath test by jon ronson the path what chinese philosophers can teach us about the good life by michael puett a brief history of time by stephen hawking messy the power of disorder to transform our lives by tim harford big data a revolution that will transform how we live work and think by viktor mayer schönberger moneyball the art of

winning an unfair game by michael lewis the survivors club the secrets and science that could save your life by ben sherwood black box thinking by matthew syed chaos making a new science by james gleick a short history of nearly everything by bill bryson the shallows what the internet is doing to our brains by nicholas carr making ideas happen overcoming the obstacles between vision and reality by scott belsky the enchiridion by epictetus gödel escher bach by douglas r hofstadter what i talk about when i talk about running by haruki murakami and lateral thinking by edward de bono

The use of consumer neuroscience in aroma marketing 2023-09-14 smell is one of the most sensitive senses and is closely connected with emotions everyone has experienced a moment where a scent changed their mood and brought up memories in this book monitoring of the effect of aromas on consumer emotions is described it starts with a general overview of the role of scents in marketing and the use of neuroscience tools in monitoring the impact of the stimuli on consumer emotions tools used by the authors are a consumer neuroscience tool electroencephalography eeg a biometric method that monitors the galvanic skin response or skin perspiration gsr and a traditional data collection method a questionnaire with these tools consumer response to three selected scents were monitored one of the initial scents was selected and tested under normal restaurant conditions the authors describe how the information was obtained and how the effect on consumer emotions was determined the use of consumer neuroscience in aroma marketing concludes with recommendations to improve the effectiveness of aromatisation in practice

HCI for Children with Disabilities 2017-05-03 in this book the authors present an hci principle based approach to develop applications to assist children with disabilities design knowledge related to developing complex solution for this audience is explained from an interaction design point of view different methodologies models and cases studies are covered with the aim of helping practitioners to adopt any of the proposed techniques presented in this book hci methodologies that adopt an agile strategy are presented including novel techniques at different development steps such as board games agile planning agile implementation method engineering as this is a huge research field the authors do not just focus on a specific disability but test their methods in different contexts with excellent results readers of this book will find both a well organized and structured set of methodologies and also material that has been tested and refined throughout years of research using detailed case studies the reader is guided towards specific solutions which will also provide insights into how to address related problems

Composite Blade Structural Analyzer (COBSTRAN) User's Manual 1989 environmental water requirements in mountainous areas presents comprehensive and scientifically sound approaches and methodologies for estimating the environmental water requirements and tradeoffs for water allocation by analyzing anthropogenic and natural water needs the book covers environmental water management issues in mountainous areas specifically focusing on the mediterranean region which exhibits significant contrasts in its demographic and hydrologic features the authors include paradigms and information that will be useful for

water resources managers decision makers scientists working in the fields of ecology and water resources management engineers that design hydraulic works and environmental policymakers offers a complete background screening on theoretical and practical guidelines on estimating environmental water requirements in mountainous areas promotes and guides interdisciplinary work with information on policies and best practices in the field of ecological flows and water resources management provides examples and case studies on the successful implementation efforts of ecological flows to analyze lessons learned and overcome practical issues and solutions

Environmental Water Requirements in Mountainous Areas 2021-10-19 the eastern and southern african regional branch of the international council of archives esarbica is dedicated to keeping and preserving records and documents so they may be accessible to the public constant research and re examination of current record keeping methods such as the electronic document and records management system edrms is necessary to ensure the preservation and dissemination of information cases on electronic record management in the esarbica region is an essential reference source that shares case studies on the development and implementation of records management strategies including the procurement and implementation of edrms covering topics such as record management strategy development e records readiness and legal frameworks this book is ideally designed for archivists librarians records specialists knowledge managers ict professionals policymakers system analysts project managers legal officers academicians researchers and students

Cases on Electronic Record Management in the ESARBICA Region 2020-02-28 crime and criminal justice concepts and controversies by stacy l mallicoat introduces students to the key concepts of the criminal justice system and invites them to explore emerging issues students will gain a balanced perspective of the criminal justice system through current controversy debates at the end of each chapter that motivate students to apply what they learned by critically analyzing and discussing the pros and cons of the issues presented examining important but often overlooked components such as the role of victims and policy crime and criminal justice helps students develop a foundational understanding of the structures agencies and functions of the criminal justice system as well as build the confidence and skills they need to effectively analyze current issues in criminal justice

Crime and Criminal Justice 2016-07-08 this three volume work presents the proceedings from the 19th international ship and offshore structures congress held in cascais portugal on 7th to 10th september 2015 the international ship and offshore structures congress issc is a forum for the exchange of information by experts undertaking and applying marine structural research the aim of

Ships and Offshore Structures XIX 2015-09-03 this book focuses on controlling morphology of different scales for polymers the authors explain the need for successful control of morphology to yield target macroscopic physical properties in the application of polymers to diverse areas such as engineering materials nanodielectrics and photonic crystals the book combines specialized chapters with an introduction to the morphology of polymers and the

range of experimental techniques available to evaluate it

Controlling the Morphology of Polymers 2016-09-06 computational modelling of concrete and concrete structures contains the contributions to the euro c 2022 conference vienna austria 23 26 may 2022 the papers review and discuss research advancements and assess the applicability and robustness of methods and models for the analysis and design of concrete fibre reinforced and prestressed concrete structures as well as masonry structures recent developments include methods of machine learning novel discretisation methods probabilistic models and consideration of a growing number of micro structural aspects in multi scale and multi physics settings in addition trends towards the material scale with new fibres and 3d printable concretes and life cycle oriented models for ageing and durability of existing and new concrete infrastructure are clearly visible overall computational robustness of numerical predictions and mathematical rigour have further increased accompanied by careful model validation based on respective experimental programmes the book will serve as an important reference for both academics and professionals stimulating new research directions in the field of computational modelling of concrete and its application to the analysis of concrete structures euro c 2022 is the eighth edition of the euro c conference series after innsbruck 1994 bad gastein 1998 st johann im pongau 2003 mayrhofen 2006 schladming 2010 st anton am arlberg 2014 and bad hofgastein 2018 the overarching focus of the conferences is on computational methods and numerical models for the analysis of concrete and concrete structures

Computational Modelling of Concrete and Concrete Structures 2022-05-22 ocean wave dynamics is the most up to date book of its kind on the three main processes responsible for the generation and evolution of ocean waves i atmospheric input from the wind ii wave breaking and iii nonlinear interactions ocean waves are important for many reasons they are the major environmental impact on in the design of coastal or offshore structures ocean waves are also fundamental to the processes of coastal flooding and beach erosion they will play a major role in storm related coastal flooding which will rise in frequency as a result of sea level rise ocean waves are also an important part of the coupled ocean atmosphere system they determine the roughness of the ocean surface and hence have an impact on winds fluxes of energy gases and heat to the ocean and even the stability of ice sheets containing the latest research on ocean waves it is a valuable resource for an overview of knowledge in this important field related link s

Ocean Wave Dynamics 2020-03-20 this book presents the proceedings of the 14th international conference on computer aided engineering collecting the best papers from the event which was held in wrocław poland in june 2018 it includes contributions from researchers in computer engineering addressing the applied science and development of the industry and offering up to date information on the development of the key technologies in technology transfer it is divided into the following thematic sections parametric and concurrent design advanced numerical simulations of physical systems integration of cad cae systems for machine design presentation of professional cad and cae systems presentation of

the modern methods of machine testing presentation of practical cad cam cae applications designing and manufacturing of machines and technical systems durability prediction repairs and retrofitting of power equipment strength and thermodynamic analyses of power equipment design and calculation of various types of load carrying structures numerical methods of dimensioning materials handling and long distance transport equipment cranes gantries automotive rail air space and other special vehicles and earth moving machinery cae integration problems the conference and its proceedings offer a major interdisciplinary forum for researchers and engineers in innovative studies and advances in this dynamic field

Proceedings of the 14th International Scientific Conference: Computer Aided Engineering 2019-03-09

in the course of energy liberalisation electricity and natural gas contracts have been separated from physical delivery and these contracts are now traded as commodities in multilateral trading facilities although designed to render energy trading standardised and efficient this system raises serious questions as to whether existing regulatory and antitrust provisions are sufficient to address market abuses that cause imbalances in demand and supply the european union s eu s regulation on wholesale energy market integrity and transparency remit adopted to combat such market manipulation is still lacking in significant case law to bolster its effectiveness addressing this gap this invaluable book provides the first in depth analysis of market manipulation in the energy sector offering a deeply informed understanding of the new anti manipulation rules and their implementation and enforcement focusing on practices that perpetrators employ to

manipulate electricity and natural gas markets and the applicability of anti manipulation rules to combat such practices the analysis examines such issues and topics as the following factors and circumstances that determine when and what market misconduct can be subject to enforcement the european commission s criteria to determine whether a particular market is susceptible to regulation jurisdiction of remit and the market abuse regulation mar with respect to the prohibitions of insider trading in financial wholesale energy markets to what extent anti manipulation rules and eu competition law may be applied concurrently and types of physical and financial instruments that market participants have employed in devising their manipulative schemes because market manipulation is rather new in the eu context but has been prohibited and prosecuted under us law for over a century much of the case law analysis is from the united states and greatly clarifies how anti manipulation rules may be enforced a concluding chapter offers policy recommendations to mitigate legal uncertainties arising from remit energy market participants such as energy producers wholesale suppliers traders transmission system operators and their counsel and legal practitioners in the field will welcome this book s extensive legal analysis and its clear demarcation of the objectives that remit seeks to accomplish with respect to energy market liberalisation

Application of Anti-manipulation Law to EU Wholesale Energy Markets and Its Interplay with EU Competition Law 2018-06-05 this book is an extended and substantially updated edition of the previous book editions published in 1996 and 2013 under the same title the 3rd edition is a one volume modern and comprehensive overview of the current

knowledge of regular and random ocean surface waves in deep waters and in coastal zones since the previous editions many new theoretical advances have been made in the physical understanding and analytical and numerical treatment of various ocean wave problems the revisions and supplements demanded by these advances have been substantial therefore the scope of the book has been extended by adding a new chapter and substantially supplementing others all chapters of the book have been rewritten to include and describe in detail many new discoveries made since the completion of the previous editions in this 3rd edition a comprehensive and updated overview of the fundamentals of the regular wave mechanics as well as the spectral and statistical properties of random waves are given except for the updated chapters dedicated to tsunami and extreme waves a new chapter dealing with other types of impulsive waves starting from rest are also included the air sea interaction processes as well as the last improvements in ocean wave modelling and presently available wave prediction models wam wavewatch iii umwm nemo are thoroughly discussed and their applications are demonstrated the review of the present ocean observation methods encompasses the modern sea truthing as well as applications of data from presently operating marine satellites in this revised edition chapters on the behavior of surface waves in the vegetated environments such as coral reef mangrove forest seaweed and seagrass areas are substantially extended and updated to include the last discoveries the explanations in the book are self contained and detailed enough to capture the interest of the potential readers and to prompt them to explore the research literature the list of rapidly

growing number of the recent papers on the ocean waves has been extended substantially up to about 900 titles contents introduction interaction of surface waves and wind spectral properties of ocean waves statistical properties of ocean waves properties of breaking waves prediction of waves in deep water prediction of waves in shallow water rogue waves wave motion starting from rest tsunami wave motion starting from rest other examples waves at coral reefs and islands waves in vegetated coasts wave induced pressure and flow in a porous bottom wave observations and long term statistics wave measurement techniques data processing and simulation techniques readership graduate students professionals and researchers including marine research specialist in ocean and coastal engineering and oceanography keywords ocean wave physics wave mathematical principles spectral analysis of waves statistics of observed waves wave numerical modelling waves in vegetated coasts extreme waves review key features the book presents a comprehensive broad scope and modern one volume study of the ocean surface waves all subjects are presented with the aim of demonstrating the close link between ocean physics and wave predictions as well as ocean engineering the book includes recent achievements published in languages other than english such as russian and polish with very extensive list of references encompassing more than 900 titles

Ocean Surface Waves: Their Physics And Prediction (Third Edition) 2017-09-28 this book is a comprehensive review of high temperature polymer electrolyte membrane fuel cells pemfcs pemfcs are the preferred fuel cells for a variety of applications such as automobiles

cogeneration of heat and power units emergency power and portable electronics the first 5 chapters of the book describe rationalization and illustration of approaches to high temperature pem systems chapters 6 13 are devoted to fabrication optimization and characterization of phosphoric acid doped polybenzimidazole membranes the very first electrolyte system that has demonstrated the concept of and motivated extensive research activity in the field the last 11 chapters summarize the state of the art of technological development of high temperature pemfcs based on acid doped pbi membranes including catalysts electrodes meas bipolar plates modelling stacking diagnostics and applications

High Temperature Polymer Electrolyte Membrane Fuel Cells 2015-10-15 this handbook provides researchers and students with an overview of the field of sustainability indicators sis as applied in the interdisciplinary field of sustainable development the editors have sought to include views from the center ground of si development but also divergent ideas which represent some of the diverse challenging and even edgy observations which are prominent in the wider field of si thinking the contributions in this handbook clearly set out the theoretical background and history of sis their origins roots and initial goals expand on the disciplines and modalities employed to develop sis of various kinds assess the various ways in which si data are gathered and the availability over space and time and quality issues that surround them explore the multiplex world of sis as expressed in agencies around the world via examples of si practice and the lessons that have emerged from them critically review the progress that sis have made over the last 30 years express the divergence of views

which are held about the value of sis including differing theories on their efficacy efficiency and ethics explore the frontier of contemporary si thinking reviewing ante post and systemic alternatives this multidisciplinary and international handbook will be of great interest to researchers students and practitioners working in sustainability research and practice Routledge Handbook of Sustainability Indicators 2018-06-14 these proceedings collect selected papers from the 7th international conference on green intelligent transportation system and safety held in nanjing on july 1 4 2016 the selected works which include state of the art studies are intended to promote the development of green mobility and intelligent transportation technology to achieve interconnectivity resource sharing flexibility and higher efficiency they offer valuable insights for researchers and engineers in the fields of transportation technology and traffic engineering automotive and mechanical engineering industrial and system engineering and electrical engineering

Green Intelligent Transportation Systems 2017-07-10 cat is the use of artificial intelligence and machine learning to create a test unique to each person in real time cat from concept to implementation is designed to take you from your initial decision to implement a cat through each step in the process of fielding a cat that will provide its benefits both to your examinees and to your organization it describes how cats are developed and how they are implemented using current advanced psychometric methods

Computerized Adaptive Testing 2024-06-12 featuring contributions from an international team of leading and up and coming scholars this innovative volume provides a

comprehensive sociolinguistic picture of current spoken British English based on the spoken BNC2014 a brand new corpus of British speech the book begins with short introductions highlighting the state of the art in three major areas of corpus based sociolinguistics while the remaining chapters feature rigorous analysis of the research outcomes of the project grounded in spoken BNC2014 data samples highlighting English used in everyday situations in the UK with brief summaries reflecting on the sociolinguistic implications of this research included at the end of each chapter this unique and robust dataset allows this team of researchers the unique opportunity to focus on speaker characteristics such as gender age dialect and socio-economic status to examine a range of sociolinguistic dimensions including grammar pragmatics and discourse and to reflect on the major changes that have occurred in British society since the last corpus was compiled in the 1990s this dynamic new contribution to the burgeoning field of corpus based sociolinguistics is key reading for students and scholars in sociolinguistics corpus linguistics pragmatics grammar and British English

Corpus Approaches to Contemporary British Speech 2018-05-23

New York City's municipal water supply system provides about 1 billion gallons of drinking water a day to over 8.5 million people in New York City and about 1 million people living in nearby Westchester Putnam Ulster and Orange counties the combined water supply system includes 19 reservoirs and three controlled lakes with a total storage capacity of approximately 580 billion gallons the city's watershed protection program is intended to maintain and enhance the high quality of these surface water sources review of the New York City watershed protection program

assesses the efficacy and future of new york city s watershed management activities the report identifies program areas that may require future change or action including continued efforts to address turbidity and responding to changes in reservoir water quality as a result of climate change

Review of the New York City Watershed Protection Program 2021-01-04 this volume provides a diachronic and synchronic overview of linguistic variability and change in involved speech related and spoken texts in english while previous works on the topic have focused on more limited time periods this book covers data from the 16th century up to the present day the studies offer new insights into historical and present day corpus pragmatics by identifying and exploring features of orality in a variety of registers for readers who are new to the field the range of approaches will provide a helpful overview for readers who are already familiar with the field the volume will shed light on the complexity of factors such as register sociolinguistic variability and language attitude thus making it a useful resource and stepping stone for further exploration the volume celebrates the groundbreaking contributions of professor merja kytö in making accessible speech related corpus material and leading the way in its exploration

Voices Past and Present - Studies of Involved, Speech-related and Spoken Texts

2020-10-15 widely used by practitioners researchers and students and now thoroughly revised with 70 new material this is the most authoritative comprehensive book on malingering and related response styles leading experts translate state of the art research

into clear usable strategies for detecting deception in a wide range of psychological and psychiatric assessment contexts including forensic settings the book examines dissimulation across multiple domains mental disorders cognitive impairments and medical complaints it describes and critically evaluates evidence based applications of multiscale inventories other psychological measures and specialized methods applications are discussed for specific populations such as sex offenders children and adolescents and law enforcement personnel key words subject areas malingering deception deceptive feigning dissimulation feigned cognitive impairment feigned conditions defensiveness response styles response bias impression management false memories forensic psychological assessments forensic assessments clinical assessments forensic mental health forensic psychological evaluations forensic psychologists forensic psychiatrists psychological testing and assessment detection strategies expert testimony expert witnesses family law child custody disputes child protection child welfare audience forensic psychologists and psychiatrists other mental health practitioners involved in interviewing and assessment including clinical psychologists social workers psychiatrists and counselors also of interest to legal professionals *Clinical Assessment of Malingering and Deception, Fourth Edition* 2020-05-28 this proceedings set contains 85 selected full papers presented at the 3rd international conference on modelling computation and optimization in information systems and management sciences mco 2015 held on may 11 13 2015 at lorraine university france the present part i of the 2 volume set includes articles devoted to combinatorial optimization and

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