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Proceedings of the 2nd International Conference on Green Communications and Networks 2012 (GCN 2012): Volume 1 Mastering Autodesk Revit MEP 2012 Mastering Autodesk Revit MEP 2013 Formal Methods and Software Engineering Service Science, Management, and Engineering: Controlled Natural Language Avoiding Attack Pressurized Fluidized Bed Combustion Conceptual Modeling for User Interface Development HCI in Mobility, Transport, and Automotive Systems. Automated Driving and In-Vehicle Experience Design Proceedings of the Institute of Industrial Engineers Asian Conference 2013 Apple Macintosh Encyclopedia 23rd European Symposium on Computer Aided Process Engineering Architects' Data Understanding Anesthesia Equipment Advances in Central Nervous System Research and Treatment: 2013 Edition 23 European Symposium on Computer Aided Process Engineering Peirce and Biosemiotics Imagination and Adolescent Trauma The Multisensory Driver The Mammoth Book of Lost Symbols From Signal caa flight instructors 2023-03-25 1/45

to Symbol The Primate Origins of Human Nature Handbook of Loss Prevention and Crime Prevention OSS for Telecom Networks Pre-Earthquake Processes Perspectives on Music, Sound and Musicology Open-Ended Problems Behind His Scarf On the Power of Fuzzy Markup Language Mimicry and Meaning: Structure and Semiotics of Biological Mimicry Transmission Software Radio Code of Federal Regulations The Working Mind "Code of Massachusetts regulations, 2012" Estimating Building Costs for the Residential and Light Commercial Construction Professional Information Design Electrical Energy Efficiency Advances in Ergonomics In Design, Usability & Special Populations: Part II

<u>Proceedings of the 2nd International Conference</u> <u>on Green Communications and Networks 2012 (GCN</u> <u>2012): Volume 1</u>

2013-02-01

the objective of the 2nd international conference on green communications and networks 2012 gcn 2012 is to facilitate an exchange of information on best practices for the latest research advances in the area of communications networks and intelligence applications these mainly involve computer science and engineering informatics communications and control electrical engineering information computing and business intelligence and management proceedings of the 2nd international conference on green communications and networks 2012 gcn 2012 will focus on green information technology and applications which will provide in depth insights for engineers and scientists in academia industry and government the book addresses the most innovative research developments including technical challenges social and economic issues and presents and discusses the authors ideas

experiences findings and current projects on all aspects of advanced green information technology and applications yuhang yang is a professor at the department of electronic engineering shanghai jiao tong university maode ma is an associate professor at the school of electrical electronic engineering nanyang technological university

Mastering Autodesk Revit MEP 2012

2011-08-08

the best tutorial and reference to provide extensive coverage of revit mep this perfectly paced autodesk official training guide covers all the core concepts and functionality of revit mep autodesk s hot mechanical engineering and plumbing software hands on real world tutorials reinforce the detailed discussions on a variety of revit mep topics including interface project setup and templates worksharing as well as such mechanical concerns as building loads and ductwork such electrical concerns as lighting and communications outlets and such plumbing concerns as fixtures and water systems serves as the only hands on reference and tutorial to cover autodesk revit mep in

exhaustive detail explores the interface and walks you through creating and using project templates devotes extensive coverage to each aspect of revit mep mechanical electrical and plumbing includes chapters on solid modeling creating symbols using parameters creating equipment and more shares tips tricks and real world exercises that only professionals who use the software every day can provide to strengthen the learning experience readers can download before and after tutorial files from the supporting web site so they can jump into any tutorial and immediately compare their work to that of the professionals

Mastering Autodesk Revit MEP 2013

2012-08-03

an outstanding tutorial and reference for autodesk revit mep this autodesk official training guide is the detailed reference and tutorial you need to master the powerful autodesk revit mep 2013 building information modeling software the expert authors combine their considerable mechanical electrical and plumbing experience to

help you guickly learn the interface and tools get hands on practice with real world projects and tutorials and master expert techniques and tricks that only pros who use the software on a daily basis know explains how to integrate revit mep 2013 into workflows worksharing and schedules covers using revit mep for mechanical design including hvac load analysis and designing ductwork and piping covers using revit mep for electrical design including lighting power communications and circuits covers using revit mep for plumbing design including water systems fixtures sanitary piping and fire protection shows how to prepare models for analysis and import export gbxml green building xml files addresses managing content from symbols and annotations to creating devices adding details and producing sheets mastering autodesk revit mep 2013 is the complete guide to this popular software with a companion website that provides before and after tutorial files so you can compare your work to that of professionals

Formal Methods and Software Engineering

2012-10-29

this book constitutes the refereed proceedings of the 14th international conference on formal engineering methods icfem 2012 held in kyoto japan november 2012 the 31 revised full papers together with 3 invited talks presented were carefully reviewed and selected from 85 submissions the papers address all current issues in formal methods and their applications in software engineering they are organized in topical sections on concurrency applications of formal methods to new areas quantity and probability formal verification modeling and development methodology temporal logics abstraction and refinement tools as well as testing and runtime verification

Service Science, Management, and Engineering:

2012-04-17

the intelligent systems series comprises titles that present state of

the art knowledge and the latest advances in intelligent systems its scope includes theoretical studies design methods and real world implementations and applications service science management and engineering presents the latest issues and development in service science both theory and applications issues are covered in this book which integrates a variety of disciplines including engineering management and information systems these topics are each related to service science from various perspectives and the book is supported throughout by applications and case studies that showcase best practice and provide insight and guidelines to assist in building successful service systems presents the latest research on service science management and engineering from both theory and applications perspectives includes coverage of applications in high growth sectors along with real world frameworks and design techniques applications and case studies showcase best practices and provide insights and guidelines to those building and managing service systems

Controlled Natural Language

2012-08-09

this book constitutes the refereed proceedings of the third international workshop on controlled natural language cnl 2012 held in zurich switzerland in august 2012 the 12 revised papers presented in this volume were carefully reviewed and selected from numerous submissions the papers are organized in topical sections on cnl for knowledge representation cnl for interactive systems cnl applications cnl grammars and lexica cnl in the context of the semantic and linked open data and cnl use cases

Avoiding Attack

2019-01-31

avoiding attack discusses the diversity of mechanisms by which prey avoid predator attacks and explores how such defensive mechanisms have evolved through natural selection it considers how potential prey

avoid detection how they make themselves unprofitable to attack how they communicate this status and how other species have exploited these signals using carefully selected examples of camouflage mimicry and warning signals drawn from a wide range of species and ecosystems the authors summarise the latest research into these fascinating adaptations developing mathematical models where appropriate and making recommendations for future study this second edition has been extensively rewritten particularly in the application of modern genetic research techniques which have transformed our recent understanding of adaptations in evolutionary genomics and phylogenetics the book also employs a more integrated and systematic approach ensuring that each chapter has a broader focus on the evolutionary and ecological consequences of anti predator adaptation the field has grown and developed considerably over the last decade with an explosion of new research literature making this new edition timely

Pressurized Fluidized Bed Combustion

2012-12-06

pressurized fluidized bed combustion pfbc is one of the newest of the coal based generation technologies available commercially this authoritative volume contains an excellent balance of the theoretical and practical aspects of pfbc technology including economics the fundamental theory of plant design and sorbent characterization using the results obtained from a wide range of pilot scale and full scale demonstration units

Conceptual Modeling for User Interface Development

2012-12-06

an introduction to entity relationship modeling showing how the technique can be applied to interface issues the book explains those

aspects of entity relationship modeling which are relevant to ermias and presents the extensions to the notation that are necessary for modeling interfaces bridging the gap in the development of interactive systems ermia provides a set of concepts which can be used equally easily by software developers and interface designers alike

HCI in Mobility, Transport, and Automotive Systems. Automated Driving and In-Vehicle Experience Design

2020-07-10

this two volume set lncs 12212 and 12213 constitutes the refereed proceedings of the second international conference on hci in mobility transport and automotive systems mobitas 2020 held as part of the 22nd international conference on human computer interaction hcii 2020 in copenhagen denmark in july 2020 a total of 1439 full papers and 238 posters have been carefully reviewed and accepted for publication in hcii 2020 the papers cover the entire field of human computer

interaction addressing major advances in knowledge and effective use of computers in a variety of application areas mobitas 2020 includes a total of 59 papers and they are organized in the following topical sections part i automated driving and in vehicle experience design ux topics in automated driving and designing in vehicle experiences part ii driving behavior urban and smart mobility studies on driving behavior and urban and smart mobility the conference was held virtually due to the covid 19 pandemic

Proceedings of the Institute of Industrial Engineers Asian Conference 2013

2013-07-12

this book is based on the research papers presented during the institute of industrial engineers asian conference 2013 held at taipei in july 2013 it presents information on the most recent and relevant research theories and practices in industrial and systems engineering key topics include engineering and technology management engineering economy and cost analysis engineering education and training

facilities planning and management global manufacturing and management human factors industrial systems engineering education information processing and engineering intelligent systems manufacturing systems operations research production planning and control project management quality control and management reliability and maintenance engineering safety security and risk management supply chain management systems modeling and simulation large scale complex systems

Apple Macintosh Encyclopedia

2012-12-06

the apple macintosh encyclopedia provides easily accessible brief and understandable information on the topics that you are most likely to have questions about we have carefully digested the manuals books magazine articles and other information sources for the macintosh these combined with our own experience in using the macintosh and other personal computers have been integrated into an alphabetical sequence of short entries in the style of an encyclopedia the goal is to provide concise useful and easy to understand information on a

particular topic that is quickly accessible when you need it much of the information in the entries is not contained in the manuals provided with the macintosh and various software products for example notice the discussion under width of the deferred nature of this command when used with a device name the discussion of the colon in multiplan for ranges or saving problems with these topics are omitted or inadequately covered in the standard manuals the macintosh is the first truly visual computer in keeping with the highly visual nature of using the macintosh we have provided over 100 illustrations each shows exactly what you will see on the screen when exploring topics discussed in the text the macintosh encyclopedia opens with a visual guide to icons and remains highly visual in orientation throughout the text

23rd European Symposium on Computer Aided Process Engineering

2013-06-10

computer aided process engineering cape plays a key design and

operations role in the process industries from the molecular scale through managing complex manufacturing sites the research interests cover a wide range of interdisciplinary problems related to the current needs of society and industry escape 23 brings together researchers and practitioners of computer aided process engineering interested in modeling simulation and optimization synthesis and design automation and control and education the proceedings present and evaluate emerging as well as established research methods and concepts as well as industrial case studies contributions from the international community using computer based methods in process engineering reviews the latest developments in process systems engineering emphasis on industrial and societal challenges

Architects' Data

2012-03-26

neufert s architects data is an essential reference for the initial design and planning of a building project it provides in one concise volume the core information needed to form the framework for the more

detailed design and planning of any building project organised largely by building type it covers the full range of preliminary considerations and with over 6200 diagrams it provides a mass of data on spatial requirements most illustrations are dimensioned and each building type includes plans sections site layouts and design details an extensive bibliography and a detailed set of metric imperial conversion tables are included since it was first published in germany in 1936 ernst neufert s handbook has been progressively revised and updated through 39 editions and many translations this fourth english language edition is translated from the 39th german edition and represents a major new edition for an international english speaking readership reviews of the previous edition neufert s architects data was the first book i bought when i started my studies in architecture it was invaluable for me then and it is still a useful aid in my designs cesar pelli with this thorough rewrite neufert has produced yet again an invaluable reference book the architects journal

Understanding Anesthesia Equipment

2012-03-29

the bible on anesthesia equipment returns in a new fifth edition and once again takes readers step by step through all the basic anesthesia equipment this absolute leader in the field includes comprehensive references and detailed discussions on the scientific fundamentals of anesthesia equipment its design and its optimal use this thoroughly updated edition includes new information on suction devices the magnetic resonance imaging environment temperature monitoring and control double lumen tubes emergency room airway equipment and many other topics readers will have access to an online quizbank at a companion website

Advances in Central Nervous System Research and Treatment: 2013 Edition

2013-06-21

advances in central nervous system research and treatment 2013 edition is a scholarlyeditions book that delivers timely authoritative and comprehensive information about meninges the editors have built advances in central nervous system research and treatment 2013 edition on the vast information databases of scholarlynews you can expect the information about meninges in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant the content of advances in central nervous system research and treatment 2013 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 scholarlyeditions com

23 European Symposium on Computer Aided Process

Engineering

2013-06-10

alarm systems in chemical plants alert process operators to deviations in process variables beyond predetermined limits with increased complexity in modern chemical plants there is an increasing importance of developing effective alarm management system we have previously developed anticipatory alarms as which is a predictive tool that provides operators with anticipatory information on alarms to help them be proactive in monitoring as they are alerted early on potential problems the next step is to present this anticipatory information in a user friendly manner through the aa display this paper focuses on the human computer interface design of the aa display various aspects of the display design have been tested in a series of human factors usability experiments where human subjects use different variants of the aa display to perform certain tasks and their performance reveals which display is the most effective

Peirce and Biosemiotics

2014-03-25

this volume discusses the importance of peirce s philosophy and theory of signs to the development of biosemiotics the science that studies the deep interrelation between meaning and life peirce considered semeiotic as a general logic part of a complex architectonic philosophy that includes mathematics phenomenology and a theory of reality the authors are peirce scholars biologists philosophers and semioticians united by an interdisciplinary endeavor to understand the mysteries of the origin of life and its related phenomena such as consciousness perception representation and communication

Imagination and Adolescent Trauma

2020-01-15

exploring the role of imagination in trauma recovery the author shares the arresting dreams and stories of traumatized adolescents describing

the impact of trauma on adolescent health and development the author provides promising research into the use of breathing skills hrv biofeedback and dream work to promote healthy breathing emotion regulation and restorative dreaming research suggests that these interventions can decrease post traumatic distress and assist in the creation of meaningful posttraumatic narratives the author explores the role of embodied imagination in adolescent spiritual development and posttraumatic growth these interventions provide clinicians and pastoral caregivers with simple and effective ways of helping adolescents heal from trauma in holistic and dynamic ways that respect the integrated constitution of the human person

The Multisensory Driver

2012-10-01

driver inattention has been identified as one of the leading causes for car accidents the problem of distraction while driving is likely to worsen partly due to increasingly complex in car technologies however intelligent transport systems are being developed to assist

drivers and to ensure a safe road environment one approach to the design of ergonomic automobile systems is to integrate our understanding of the human information processing systems into the design process this book aims to further the design of ergonomic multisensory interfaces using research from the fast growing field of cognitive neuroscience it focuses on two aspects of driver information processing in particular multisensory interactions and the spatial distribution of attention in driving the multisensory driver provides interface design guidelines together with a detailed review of current cognitive neuroscience and behavioural research in multisensory human perception which will help the development of ergonomic interfaces the discussion on spatial attention is particularly relevant for car interface designers but it will also appeal to cognitive psychologists interested in spatial attention and the applications of these theoretical research findings giving a detailed description of a cohesive series of psychophysical experiments on multisensory warning signals conducted in both laboratory and simulator settings this book provides an approach for those in the engineering discipline who wish to test their systems with human observers

The Mammoth Book of Lost Symbols

2012-02-16

humanity has always used symbols material objects used to denote difficult abstract concepts to describe thoughts and feelings or to protect secret truths from common knowledge this concise a z guide is a fascinating work of reference that brings to light all the symbols and symbolisms of the world many aspects of which have been lost to time including freemasonry the kabbalah the tarot astrology alchemy zoroastrianism and ancient cultures from egypt to japan

From Signal to Symbol

2021-10-12

a novel account of the evolution of language and the cognitive capacities on which language depends in from signal to symbol ronald planer and kim sterelny propose a novel theory of language that modern language is the product of a long series of increasingly rich

protolanguages evolving over the last two million years arguing that language and cognition coevolved they give a central role to archaeological evidence and attempt to infer cognitive capacities on the basis of that evidence which they link in turn to communicative capacities countering other accounts which move directly from archaeological traces to language planer and sterelny show that rudimentary forms of many of the elements on which language depends can be found in the great apes and were part of the equipment of the earliest species in our lineage after outlining the constraints a theory of the evolution of language should satisfy and filling in the details of their model they take up the evolution of words composite utterances and hierarchical structure they consider the transition from a predominantly gestural to a predominantly vocal form of language and discuss the economic and social factors that led to language finally they evaluate their theory in terms of the constraints previously laid out

The Primate Origins of Human Nature

2016-01-22

the primate origins of human nature volume 3 in the foundations of human biology series blends several elements from evolutionary biology as applied to primate behavioral ecology and primate psychology classical physical anthropology and evolutionary psychology of humans however unlike similar books it strives to define the human species relative to our living and extinct relatives and thus highlights uniquely derived human features the book features a truly multi disciplinary multi theory and comparative species approach to subjects not usually presented in textbooks focused on humans such as the evolution of culture life history parenting and social organization

Handbook of Loss Prevention and Crime Prevention

2012-01-27

this volume brings together the expertise of more than 40 security and crime prevention experts it provides comprehensive coverage of the latest information on every topic from community oriented policing to physical security workplace violence cctv and information security

OSS for Telecom Networks

2012-12-06

places oss software in the context of telecommunications as a business gives a concrete understanding of what oss is what it does and how it does it avoiding deep technical details frequently relates oss software to business drivers of telecom service providers

Pre-Earthquake Processes

2018-05-30

pre earthquake signals are advanced warnings of a larger seismic event a better understanding of these processes can help to predict the

characteristics of the subsequent mainshock pre earthquake processes a multidisciplinary approach to earthquake prediction studies presents the latest research on earthquake forecasting and prediction based on observations and physical modeling in china greece italy france japan russia taiwan and the united states volume highlights include describes the earthquake processes and the observed physical signals that precede them explores the relationship between pre earthquake activity and the characteristics of subsequent seismic events encompasses physical atmospheric geochemical and historical characteristics of pre earthquakes illustrates thermal infrared seismo ionospheric and other satellite and ground based pre earthquake anomalies applies these multidisciplinary data to earthquake forecasting and prediction written for seismologists geophysicists geochemists physical scientists students and others pre earthquake processes a multidisciplinary approach to earthquake prediction studies offers an essential resource for understanding the dynamics of pre earthquake phenomena from an international and multidisciplinary perspective

Perspectives on Music, Sound and Musicology

2021-09-30

this book gathers a set of works highlighting significant advances in the areas of music and sound they report on innovative music technologies acoustics findings in musicology new perspectives and techniques for composition sound design and sound synthesis and methods for music education and therapy further they cover interesting topics at the intersection between music and computing design and social sciences chapters are based on extended and revised versions of the best papers presented during the 6th and 7th editions of eimad meeting of research in music arts and design held in 2020 and 2021 respectively at the school of applied arts in castelo branco portugal all in all this book provides music researchers educators and professionals with authoritative information about new trends and techniques and a source of inspiration for future research practical developments and for establishing collaboration between experts from different fields

Open-Ended Problems

2015-03-27

this is a unique book with nearly 1000 problems and 50 case studies on open ended problems in every key topic in chemical engineering that helps to better prepare chemical engineers for the future the term open ended problem basically describes an approach to the solution of a problem and or situation for which there is not a unique solution the introduction to the general subject of open ended problems is followed by 22 chapters each of which addresses a traditional chemical engineering or chemical engineering related topic each of these chapters contain a brief overview of the subject matter of concern e q thermodynamics which is followed by sample open ended problems that have been solved by the authors employing one of the many possible approaches to the solutions this is then followed by approximately 40 45 open ended problems with no solutions although many of the authors solutions are available for those who adopt the book for classroom or training purposes a reference section is included with the chapter s contents term projects comprised of 12 additional chapter topics

complement the presentation this book provides academic industrial and research personnel with the material that covers the principles and applications of open ended chemical engineering problems in a thorough and clear manner upon completion of the text the reader should have acquired not only a working knowledge of the principles of chemical engineering but also and more importantly experience in solving open ended problems what many educators have learned is that the applications and implications of open ended problems are not only changing professions but also are moving so fast that many have not yet grasped their tremendous impact the book drives home that the open ended approach will revolutionize the way chemical engineers will need to operate in the future

Behind His Scarf

2012-11

behind his scarf follows the two new students of kaiun high school s third year sakura is a quiet hard working girl with golden hair whilst lucifer is a rebellious male with a terrible temper their worlds

become entwined when lucifer finds out sakura s secret and forces her to go out with him mortified at first by the agreement sakura learns the truth about lucifer and begins questioning her own past discovering the kinder side of lucifer sakura gets dragged into his world and find much more than she bargined for

On the Power of Fuzzy Markup Language

2012-12-14

one of the most successful methodology that arose from the worldwide diffusion of fuzzy logic is fuzzy control after the first attempts dated in the seventies this methodology has been widely exploited for controlling many industrial components and systems at the same time and very independently from fuzzy logic or fuzzy control the birth of the has impacted upon almost all aspects of computing discipline evolution of web2 0 and 3 0 has been making scenarios of ubiquitous computing much more feasible consequently information technology has been thoroughly integrated into everyday objects and activities what happens when fuzzy logic meets technology interesting results might

come out as you will discover in this book fuzzy mark up language is a son of this synergistic view where some technological issues of are re interpreted taking into account the transparent notion of fuzzy control as discussed here the concept of a fuzzy control that is conceived and modeled in terms of a native web wisdom represents another step towards the last picture of pervasive intelligence

Mimicry and Meaning: Structure and Semiotics of Biological Mimicry

2017-01-11

the present book analyses critically the tripartite mimicry model consisting of the mimic model and receiver species and develops semiotic tools for comparative analysis it is proposed that mimicry has a double structure where sign relations in communication are in constant interplay with ecological relations between species multi constructivism and toolbox like conceptual methods are advocated for as these allow taking into account both the participants umwelten as well as cultural meanings related to specific mimicry cases from

biosemiotic viewpoint mimicry is a sign relation where deceptively similar messages are perceived interpreted and acted upon focusing on living subjects and their communication opens up new ways to understand mimicry such view helps to explain the diversity of mimicry as well as mimicry studies and treat these in a single framework on a meta level a semiotic view allows critical reflection on the use of mimicry concept in modern biology the author further discusses interpretations of mimicry in contemporary semiotics analyses mimicry as communicative interaction relates mimicry to iconic signs and focuses on abstract resemblances in mimicry theoretical discussions are illustrated with detailed excursions into practical mimicry cases in nature brood parasitism eyespots myrmecomorphy etc the book concludes with a conviction that mimicry should be treated in a broader semiotic ecological context as it presumes the existence of ecological codes and other sign conventions in the ecosystem

Transmission

2012-01-19

the second volume of meaney s epic ragnarok space opera trilogy the dark matter in the universe is alive and is seeking to pervert human history to its own ends its influence has reached back into the dark ages to the centre of the third reich and 600 years into the future the ragnarok universe not only provides a stunning sf rationale for norse mythology but posits a world where pilots are locked into symbiotic relationships with their ships and the cities can come alive

Software Radio

2012-12-06

next generation mobile communications are likely to employ different techniques and standards the implementation in software of as many receiver functionalities as possible appears to be the most effective solution for coping with the multiplicity of communications alternatives the concept of software radio dating back to 1991 originally attracted commercial interest owing to the possibility that transmission layer functions could be fully software defined the same approach can be extended to protocols of the higher layers too thus

conceiving a programmable hardware to implement the functionalities of several layers of protocols by resident software or software downloaded from the network consisting of selected technical contributions to the workshop on software radio this volume deals with state of the art surveys of the enabling technologies and the prospective services of software radio implementations for future mobile communications original and state of the art research and development is presented in fields such as software radio for universal wireless internet access software radio for multimedia communications software radio architecture network architecture protocols and services software radio technology towards pervasive appliance this volume on software radio is a valuable reference for both researchers and telecommunications professionals

Code of Federal Regulations

2012

special edition of the federal register containing a codification of documents of general applicability and future effect with ancillaries

The Working Mind

2021-04-13

a general organismic causal theory that explicates working memory and executive function developmentally clarifying the nature of human intelligence in the working mind juan pascual leone and janice m johnson propose a general organismic causal theory that explicates working memory and executive function developmentally and by doing so clarifies the nature of human intelligence pascual leone and johnson explain from within that is from a subject s own processing perspective cognitive developmental stages of growth describing key causal factors that can account for the emergence of the working mind as a functional totality among these factors is a maturationally growing mental attention

"Code of Massachusetts regulations, 2012"

2013

archival snapshot of entire looseleaf code of massachusetts regulations held by the social law library of massachusetts as of january 2013

Estimating Building Costs for the Residential and Light Commercial Construction Professional

2012-04-03

how to succeed in the construction business step by step guidelines for estimating to be competitive contractors and homebuilders need to know how to generate complete accurate estimates for labor and material costs this book guides readers through the entire estimating process explaining in detail how to put together a reliable estimate that can be used not only for budgeting but also for developing a schedule managing a project dealing with contingencies and ultimately making a profit completely revised and updated to reflect the new csi masterformat 2010tm system the second edition of this practical guide describes estimating techniques for each building system and how to apply them according to the latest industry standards cost

considerations and quantity takeoff and pricing are included for virtually every type of work found in residential and light commercial projects from demolition concrete and masonry to windows and doors siding roofing mechanical and electrical systems finish work and site construction complete with many new graphics and references to professional construction cost databases the new edition provides experienced contractors and novices alike with essential information on how to correctly interpret plans and specifications reflecting updates to contract documents since the first edition computer estimating techniques and new estimating software for performing quantity takeoff the best methods for conceptual estimating as well as the extremely useful topic of parametric estimating how to allocate the right amounts for profit and contingencies and other hard to find professional guidance how a unit price estimate is built along with labor issues and budgeting for subcontractor work

Information Design

2017-01-12

information design provides citizens business and government with a means of presenting and interacting with complex information it embraces applications from wayfinding and map reading to forms design from website and screen layout to instruction done well it can communicate across languages and cultures convey complicated instructions even change behaviours information design offers an authoritative guide to this important multidisciplinary subject the book weaves design theory and methods with case studies of professional practice from leading information designers across the world the heavily illustrated text is rigorous yet readable and offers a single must have reference to anyone interested in information design or any of its related disciplines such as interaction design and information architecture information graphics document design universal design service design map making and wayfinding

Electrical Energy Efficiency

2012-03-15

the improvement of electrical energy efficiency is fast becoming one

of the most essential areas of sustainability development backed by political initiatives to control and reduce energy demand now a major topic in industry and the electrical engineering research community engineers have started to focus on analysis diagnosis and possible solutions owing to the complexity and cross disciplinary nature of electrical energy efficiency issues the optimal solution is often multi faceted with a critical solutions evaluation component to ensure cost effectiveness this single source reference brings a practical focus to the subject of electrical energy efficiency providing detailed theory and practical applications to enable engineers to find solutions for electroefficiency problems it presents power supplier as well as electricity user perspectives and promotes routine implementation of good engineering practice key features include a comprehensive overview of the different technologies involved in electroefficiency outlining monitoring and control concepts and practical design techniques used in industrial applications description of the current standards of electrical motors with illustrative case studies showing how to achieve better design up to date information on standarization technologies economic realities and energy efficiency indicators the main types and international results

coverage on the quality and efficiency of distribution systems the impact on distribution systems and loads and the calculation of power losses in distribution lines and in power transformers with invaluable practical advice this book is suited to practicing electrical engineers design engineers installation designers m e designers and economic engineers it equips maintenance and energy managers planners and infrastructure managers with the necessary knowledge to properly evaluate the wealth of electrical energy efficiency solutions for large investments this reference also provides interesting reading material for energy researchers policy makers consultants postgraduate engineering students and final year undergraduate engineering students

<u>Advances in Ergonomics In Design, Usability &</u> <u>Special Populations: Part II</u>

2022-07-19

successful interaction with products tools and technologies depends on usable designs and accommodating the needs of potential users without requiring costly training in this context this book is concerned with

emerging ergonomics in design concepts theories and applications of human factors knowledge focusing on the discovery design and understanding of human interaction and usability issues with products and systems for their improvement this book will be of special value to a large variety of professionals researchers and students in the broad field of human modeling and performance who are interested in feedback of devices interfaces visual and haptic user centered design and design for special populations particularly the elderly we hope this book is informative but even more that it is thought provoking we hope it inspires leading the reader to contemplate other questions applications and potential solutions in creating good designs for all

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