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Introduction to Polymer Science and Technology

Structural Elements Design Manual: Working with Eurocodes

Innovative Mobile and Internet Services in Ubiquitous Computing

Proceedings of the First International Conference on Construction Materials and Structures

Facilities for Pathology Services

Rail Vehicle Mechatronics

Evaluation of Human Work

Proceedings of the 4th International Conference on Electronics, Communications and Networks (CECNET IV), Beijing, China, 12-15 December 2014

Third International Conference, ACeS 2021, Penang, Malaysia, August 24-25, 2021, Revised Selected Papers

Computer Vision

Proceedings of the 11th International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing (IMIS-2017)

Harmonisation between Architecture and Nature

Advances in Information Optics and Photonics

Metric Handbook

Wireless LANs and Home Networks

Modeling the Power Consumption and Energy Efficiency of Telecommunications Networks

Experimental Investigations on Joining Techniques for Paper Structures

Computer Security Fundamentals

From Theory to Real World Applications

Electronics, Communications and Networks IV

Proceedings of the 1st International Conference on Sustainable Buildings and Structures (Suzhou, P.R. China, 29 October - 1 November 2015)

Advances in Cyber Security

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Introduction to Polymer Science and Technology Routledge

Written by experts with real-world experience in applying ergonomics methodology in a range of contexts, Evaluation of Human Work, Fourth Edition explores ergonomics and human factors from a "doing it" perspective. More than a cookbook of ergonomics methods, the book encourages students to think about which methods they should apply, when, and why.

Structural Elements Design Manual: Working with Eurocodes Springer

This unique and up-to-date work surveys the use of mechatronics in rail vehicles, notably traction, braking, communications, data sharing, and control. The results include improved safety, comfort, and fuel efficiency. Mechatronic systems are a key element in modern rail vehicle design and operation. Starting with an overview of mechatronic theory, the book goes on to cover topics including modeling of mechanical and electrical systems for rail vehicles, open and closed loop control systems, sensors, actuators and microprocessors. Modern simulation techniques and examples are included throughout, and numerical experiments and developed models for railway application are presented and explained. Case studies are used, alongside practical examples, to ensure that the reader can apply

mechatronic theory to real world conditions. These case studies include modeling of a hybrid locomotive and simplified models of railway vehicle lateral dynamics for suspension control studies. Rail Vehicle Mechatronics provides current and in-depth content for design engineers, operations managers, systems engineers and technical consultants world-wide, working with freight, passenger, and urban transit railway systems.

Innovative Mobile and Internet Services in Ubiquitous Computing
CRC Press

The 2001 International Conference on Wireless LANs and Home Networks showcased some of the world's most dynamic presenters, including Dr Leonard Keinrock (inventor of Internet technology), as well as leading experts from 20 countries who dealt with the latest technological breakthroughs. This book is a collection of technical papers presented at the conference. It comprises 32 high-quality papers that have been carefully selected from more than 100 submissions.

Proceedings of the First International Conference on Construction Materials and Structures CRC Press

Computer vision is probably the most exciting branch of image processing, and the number of applications in robotics, automation technology and quality control is constantly increasing. Unfortunately entering this research area is, as yet, not simple. Those who are interested must first go through a lot of books, publications and software libraries. With this book, however, the first step is easy. The theoretically founded content is understandable and is supplemented by many practical examples. Source code is provided with the specially developed platform-independent open source library IVT in the programming

language C/C++. The use of the IVT is not necessary, but it does make for a much easier entry and allows first developments to be quickly produced.

Facilities for Pathology Services Springer Nature

This book introduces the technical foundations and tools for estimating the power consumption of internet networks and services, including a detailed description of how these models are constructed and applied. Modeling the Power Consumption and Energy Efficiency of Telecommunications Networks can be used to gain insight into the construction of mathematical models that provide realistic estimates of the power consumption of internet networks and services. This knowledge enables forecasting the energy footprint of future networks and services to integrate sustainability and environmental considerations into network planning and design. FEATURES Provides the motivation for developing mathematical models for telecommunications network and service power consumption and energy efficiency modeling Presents factors impacting overall network and service power consumption Discusses the types of network equipment and their power consumption profiles Reviews the basics of power modeling, including network segmentation, traffic forecasting, top-down and bottom-up models, wired and wireless networks, data centers and servers Explores the application of energy efficiency metrics for equipment, networks, and services This book is aimed at students and technologists as well as technology managers and policy makers. This book will be of value to any organization that wishes to estimate the energy footprint of the use of information and communications technologies. This book can also be integrated into a course on

the sustainability of information and communications technologies.

Rail Vehicle Mechatronics WIT Press

This book presents refereed proceedings of the Third International Conference on Advances in Cyber Security, ACeS 2021, held in Penang, Malaysia, in August 2021. The 36 full papers were carefully reviewed and selected from 92 submissions. The papers are organized in the following topical sections: Internet of Things, Industry 4.0 and Blockchain, and Cryptology; Digital Forensics and Surveillance, Botnet and Malware, DDoS, and Intrusion Detection/Prevention; Ambient Cloud and Edge Computing, SDN, Wireless and Cellular Communication; Governance, Social Media, Mobile and Web, Data Privacy, Data Policy and Fake News.

Sams Publishing

Complete your pathway to a career in plumbing with Plumbing Book 2, published in association with City & Guilds. -Study with confidence, covering all core units for the new specification - Enhance your understanding of plumbing practice with clear and accurate step-by-step photo sequences, demonstrating technical skills you need to master -Practise Maths and English in context, with embedded Improve your maths and English activities -Test your knowledge with end of unit practice questions and activities -Get to know the format and requirements for synoptic assessments, with practice mini-assignments -Prepare for the workplace with up-to-date information on relevant key regulations and industry standards

Evaluation of Human Work The Stationery Office

In this age of the photon, information optics and photonics

represent the key technologies to sustain our knowledge-based society. New concepts in classical and quantum-entangled light and coherent matter and novel materials and processes have led to remarkable advances in today's information science and technology. This volume contains a collection of 32 chapters from internationally leading scientists and research groups on a variety of topics in information optics and photonics, including the 2003-2006 ICO Prize winners. The chapters are divided into 7 sections: Beam Optics; Laser Photonics and Components; Electromagnetic Coherence; Imaging, Microscopy, Holography, and Materials; Photonics Processing; Quantum Information and Matter; and, Communications and Networks.

Proceedings of the 4th International Conference on Electronics, Communications and Networks (CECNET IV), Beijing, China, 12-15 December 2014 IOS Press

Welcome to today's most useful and practical one-volume introduction to computer security. Chuck Easttom brings together up-to-the-minute coverage of all basic concepts, terminology, and issues, along with all the skills you need to get started in the field. Drawing on his extensive experience as a security instructor and consultant, Easttom thoroughly covers core topics, such as vulnerability assessment, virus attacks, hacking, spyware, network defense, passwords, firewalls, VPNs, and intrusion detection. Writing clearly and simply, he fully addresses crucial issues that many introductory security books ignore, from industrial espionage to cyberbullying. Computer Security Fundamentals, Third Edition is packed with tips and examples, all extensively updated for the state-of-the-art in both attacks and defense. Each chapter offers exercises, projects, and review

questions designed to deepen your understanding and help you apply all you've learned. Whether you're a student, a system or network administrator, a manager, or a law enforcement professional, this book will help you protect your systems and data and expand your career options. Learn how to Identify the worst threats to your network and assess your risks Get inside the minds of hackers, so you can prevent their attacks Implement a proven layered approach to network security Use basic networking knowledge to improve security Resist the full spectrum of Internet-based scams and frauds Defend against today's most common Denial of Service (DoS) attacks Prevent attacks by viruses, spyware, and other malware Protect against low-tech social engineering attacks Choose the best encryption methods for your organization Select firewalls and other security technologies Implement security policies that will work in your environment Scan your network for vulnerabilities Evaluate potential security consultants Understand cyberterrorism and information warfare Master basic computer forensics and know what to do after you're attacked

Third International Conference, ACeS 2021, Penang, Malaysia, August 24-25, 2021, Revised Selected Papers
CRC Press

This book brings together papers from the 2018 International Conference on Communications, Signal Processing, and Systems, which was held in Dalian, China on July 14-16, 2018. Presenting the latest developments and discussing the interactions and links between these multidisciplinary fields, the book spans topics ranging from communications, signal processing and systems. It is aimed at undergraduate and graduate electrical engineering,

computer science and mathematics students, researchers and engineers from academia and industry as well as government employees.

Computer Vision Pearson IT Certification

Recent Advances in Chaotic Systems and Synchronization: From Theory to Real World Applications is a major reference for scientists and engineers interested in applying new computational and mathematical tools for solving complex problems related to modeling, analyzing and synchronizing chaotic systems. Furthermore, it offers an array of new, real-world applications in the field. Written by eminent scientists in the field of control theory and nonlinear systems from 19 countries (Cameroon, China, Ethiopia, France, Greece, India, Italia, Iran, Japan, Mexico, and more), this book covers the latest advances in chaos theory, along with the efficiency of novel synchronization approaches. Readers will find the fundamentals and algorithms related to the analysis and synchronization of chaotic systems, along with key applications, including electronic design, text and image encryption, and robot control and tracking. Explores and evaluates the latest real-world applications of chaos across various engineering and biomedical engineering fields Investigates advances in chaos synchronization techniques, including the continuous sliding-mode control approach, hybrid synchronization between chaotic and hyperchaotic systems, and neural network synchronization Presents recent advances in chaotic systems through an overview of new systems and new proprieties

Proceedings of the 11th International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing (IMIS-2017)

John Wiley & Sons

Sustainable Buildings and Structures collects the contributions presented at the 1st International Conference on Sustainable Buildings and Structures (Suzhou, China, 29 October-1 November 2016). The book aims to share thoughts and ideas on sustainable approaches to urban planning, engineering design and construction. The topics discussed include:-

Harmonisation between Architecture and Nature Springer Nature
The Emerald Handbook of Women and Entrepreneurship in Developing Economies examines women's role in entrepreneurial practices in a range of developing countries and applies unique strategic contextual frameworks to analyse, interpret and understand individual processes, themes and issues.

Advances in Information Optics and Photonics CRC Press
The offsite and modular market is continuing to grow. This book builds on the success of a number of initiatives, including formative findings from literature, research and development and practice-based evidence (success stories). It presents new thinking and direction from leading experts in the fields of: design, process, construction, engineering, manufacturing, logistics, robotics, delivery platforms, business and transformational strategies, change management, legislation, organisational learning, software design, innovation and biomimetics. This book is particularly novel and timely, as it brings together a number of cogent subjects under one collective 'umbrella'. Each of these chapters contain original findings, all of which culminate in three 'Key Learning Points' which provide new insight into the cross-cutting themes, interrelationships and symbiotic forces that exist between each of these chapters. This

approach also provides readers with new contextualised understanding of the wider issues affecting the offsite market, from the need to embrace societal challenges, through to the development of rich value-laden solutions required for creating sector resilience. Content includes a balance between case studies and practice-based work, through to technical topics, theoretical propositions, pioneering research and future offsite opportunities ready for exploitation. This work includes: stakeholder integration, skills acquisition, new business models and processes, circularity and sustainable business strategies, robotics and automation, innovation and change, lean production methodologies and new construction methods, Design for Manufacturing and Assembly, scaled portfolio platforms and customisability, new legal regulatory standards and conformance issues and offsite feasibility scenario development/integration.

Metric Handbook Routledge

This two-volume set LNICST 280-281 constitutes the post-conference proceedings of the 10th EAI International Conference on Wireless and Satellite Services, WiSATS 2019, held in Harbin, China, in January 2019. The conference was formerly known as the International Conference on Personal Satellite Services (PSATS) mainly covering topics in the satellite domain. The 137 full papers were carefully reviewed and selected from 289 submissions. The papers are organized in topical sections on machine learning for satellite-terrestrial networks, human-machine interactive sensing, monitoring, and communications, integrated space and onboard networks, intelligent signal processing, wireless communications and networks, vehicular communications and networks, intelligent 5G communication and

digital image processing technology, security, reliability and resilience in internet of things, advances in communications and computing for internet of things.

Wireless LANs and Home Networks Sams Teach Yourself Xcode 4 in 24 Hours

Significantly updated in reference to the latest construction standards and new building types Sustainable design integrated into chapters throughout Over half of the entire book has now been updated since 2015 Over 100,000 copies sold to successive generations of architects and designers This book belongs in every design office. The Metric Handbook is the major handbook of planning and design data for architects and architecture students. Covering basic design data for all the major building types it is the ideal starting point for any project. For each building type, the book gives the basic design requirements and all the principal dimensional data, and succinct guidance on how to use the information and what regulations the designer needs to be aware of. As well as buildings, the Metric Handbook deals with broader aspects of design such as materials, acoustics and lighting, and general design data on human dimensions and space requirements. The Metric Handbook is the unique reference for solving everyday planning problems.

Modeling the Power Consumption and Energy Efficiency of Telecommunications Networks Springer

In just 24 sessions of one hour or less, Sams Teach Yourself Xcode 4 in 24 Hours will help you achieve breakthrough productivity with Apple's new Xcode 4.3+ development environment for OS X and iOS devices. Every lesson introduces new concepts and builds on what you've already learned, giving

you a rock-solid foundation for real-world success! Step-by-step instructions carefully walk you through the most common Xcode 4 development tasks. Quizzes and Exercises at the end of each chapter help you test your knowledge. By the Way notes present interesting information related to the discussion. Did You Know? tips offer advice or show you easier ways to perform tasks. Watch Out! cautions alert you to possible problems and give you advice on how to avoid them. Printed in full color-figures and code appear as they do in Xcode 4.3+ Master the MVC design pattern at the heart of iOS and OS X development Use Xcode project templates to get a head start on advanced application features Efficiently use the Xcode Code Editor and get fast, contextually-aware answers with the built-in help system Use iOS Storyboards to visually describe an application's workflow Get started with Core Data to simplify data management and data-driven user interfaces Use frameworks and libraries to package functionality and promote time-saving code reuse Use Git and Subversion source control for managing distributed projects Prepare Unit tests and use the Xcode debugger to keep your projects error free Package your apps for the App Store Use the command-line Xcode tools for scripting and build automation

Experimental Investigations on Joining Techniques for Paper Structures Routledge

This document gives best practice advice on the planning and design of accommodation for NHS pathology services. It focuses on laboratory-based facilities within acute hospitals, serving acute and primary care needs across a pathology network. It also touches upon point of care testing facilities.

Computer Security Fundamentals Routledge

The two volumes of these Proceedings contain about 200 conference papers and 10 keynote papers presented at the First International Conference on Construction Materials and Structures, held in Johannesburg, South Africa from 24 to 26 November 2014. It includes sections on Materials and characterization; Durability of construction materials; Structural implications, performance, service life; Sustainability, waste utilization, the environment; and Building science and construction.

From Theory to Real World Applications Springer

Structural Elements Design Manual: Working With Eurocodes is the structural engineers 'companion volume' to the four Eurocodes on the structural use of timber, concrete, masonry and steelwork. For the student at higher technician or first degree level it provides a single source of information on the behaviour and practical design of the main elements of the building structure. With plenty of worked examples and diagrams, it is a useful textbook not only for students of structural and civil

engineering, but also for those on courses in related subjects such as architecture, building and surveying whose studies include the design of structural elements. Trevor Draycott the former Buildings and Standards Manager with Lancashire County Council's Department of Property Services has 50 years experience in the construction industry. For 20 years he was also an associate lecturer in structures at Lancashire Polytechnic, now the University of Central Lancashire in Preston. For many years he served on the Institution of Structural Engineers, North West Branch, professional interview panel and the North West regional committee of the Timber Research and Development Association. Peter Bullman worked for Felix J Samuely and Partners, Taylor Woodrow Construction and Building Design Partnership before joining Bolton Institute, now the University of Bolton, as a lecturer in structural engineering. He has taught structural design on higher technician, degree and postgraduate courses, and has run courses to prepare engineers for the IStructE Chartered Membership examination.

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