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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.

So far in the twenty-first century, there have been many developments in our understanding of materials' behaviour and in their technology and use. This new edition has been expanded to cover recent developments such as the use of glass as a structural material. It also now examines the contribution that material selection makes to sustainable construction practice, considering the availability of raw materials, production, recycling and reuse, which all contribute to the life cycle assessment of structures. As well as being brought up-to-date with current usage and performance standards, each section now contains an extra chapter on recycling. Covers the following materials: metals concrete ceramics (including bricks and masonry) polymers fibre composites bituminous materials timber glass. This new edition maintains our familiar and accessible format, starting with fundamental concepts and continuing with a section on each of the major groups of materials. It gives you a clear and comprehensive perspective on the whole range of materials used in modern construction. A must have for Civil and Structural engineering students, and for students of architecture, surveying or construction on courses which require an understanding of materials.

The 4th International Conference on Electronic, Communications and Networks (CECNet2014) inherits the fruitfulness of the past three conferences and lays a foundation for the forthcoming next year in Shanghai. CECNet2014 was hosted by Hubei University of Science and Technology, China, with the main objective of providing a comprehensive global forum.

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.

Modeling the Power Consumption and Energy Efficiency of Telecommunications Networks

Concrete Petrography

Proceedings of the RILEM International Symposium on Bituminous Materials

ISBM Lyon 2020

Evaluation of Human Work

Construction Materials and Structures

The range of the photonic 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.

This eighth edition of the most popular and trusted guide to the building regulations is the most comprehensive revision yet. It reflects all the latest amendments to Building Regulations, Planning Permission and the Approved Documents A, B, C, H, K, P, Regulation 7 incorporating all amendments up to December 2013 (including the changes to Leaflets L1A and L2A which come into effect April 2014). This new edition also contains details of the new national planning guidance system and initiatives to speed up the planning process such as the new on line planning appl.

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.

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.

Computer Vision

Connecting Offices and Homes : Proceedings of the International Conference on Wireless LANs and Home Networks : Singapore, 5-7 December 2001

Sams Teach Yourself Xcode 4 in 24 Hours

Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States

Their Nature and Behaviour, Fifth Edition

National Electrical Code

In just 24 sessions of one hour or less, Sams Teach Yourself Xcode 4 in 24 Hours will help you achieve breakthrough success 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 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

code reuse 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

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 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

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 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

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

much easier entry and allows first developments to be quickly produced.

Advances in Information Optics and Photonics

Metric Handbook

Their Nature and Behaviour, Fourth Edition

Principles and Practice

9th Edition

Rail Vehicle Mechatronics

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.

This book highlights the latest research advances, new methods and development techniques, challenges and solutions from both theoretical and practical perspectives related to Ubiquitous and Pervasive Computing (UPC), with an emphasis on innovative, mobile and internet services. With the proliferation of wireless technologies and electronic devices, there is a rapidly growing interest in UPC, which makes it possible to create human-oriented computing environments in which computer chips are embedded in everyday objects and interact with the physical world. With UPC, people can go online even while moving around, thus enjoying nearly permanent access to their preferred services. Though it holds the potential to revolutionize our lives, UPC also poses a number of new research challenges. The book gathers the proceedings of the 11th International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing (IMIS-2017), held on June 28-June 30, 2017 in Torino, Italy.

This established textbook provides an understanding of materials' behaviour through knowledge of their chemical and physical structure. It covers the main classes of construction materials: metals, concrete, other ceramics (including bricks and masonry), polymers, fibre composites, bituminous materials, timber, and glass. It provides a clear and comprehensive perspective on the whole range of materials used in modern construction, to form a must-have for civil and structural engineering students, and those on courses such as architecture, surveying and construction. It begins with a Fundamentals section followed by a section on each of the major groups of materials. In this new edition: - The section on fibre composites FRP and FRC has been completely restructured and updated. - Typical questions with answers to any numerical examples are given at the end of each section, as well as an instructor's manual with further questions and answers. - The links in all parts have also been updated and extended, including links to free reports from The Concrete Centre, as well as other online resources and material suppliers' websites. - and now with solutions manual and resources for adopting instructors on https://www.crcpress.com/9781498741101

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 worked out examples 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.

Offsite Production and Manufacturing for Innovative Construction

From Theory to Real World Applications

Proceedings of the First International Conference on Construction Materials and Structures

People, Process and Technology

Wireless LANs and Home Networks

10th EAI International Conference, WISATS 2019, Harbin, China, January 12-13, 2019, Proceedings, Part I

Safe, efficient, code-compliant electrical installations are made simple with the latest publication of this widely popular resource. Like its highly successful previous editions, the National Electrical Code 2011 spiral bound version combines solid, thorough, research-based content with the tools you need to build an in-depth understanding of the most important topics. New to the 2011 edition are articles including first-time Article 399 on Outdoor, Overhead Conductors with over 600 volts, first-time Article 694 on Small Wind Electric Systems, first-time Article 840 on Premises Powered Broadband Communications Systems, and more. This spiralbound version allows users to open the code to a certain page and easily keep the book open while referencing that page. The National Electrical Code is adopted in all 50 states, and is an essential reference for those in or entering careers in electrical design, installation, inspection, and safety.

Eight minibooks spanning over 850 pages deliver the scoop on the latest versions of seven leading Linux distributions: Fedora Core, SUSE, Debian, Xandros, SimplyMEPIS, Knoppix, and Ubuntu The DVD includes the full Fedora Core and Knoppix distributions plus ISO images of the other distributions covered, saving hours of downloading time This new edition includes all-new coverage of the SimplyMEPIS and Ubuntidistributions, an added section on the Skype Internet telephone system, and expanded coverage of Firefox, SELinux, and OpenOffice.org applications The eight minibooks cover Linux basics, desktops, networking, the Internet, administration, security, Internet servers, and programming The Linux share of the operating system market is expected to grow from three to 11 percent in the next four years Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Managing Quality, Third Edition is an essential resource for students and practitioners alike. This popular and highly successful introduction to Quality Management has been fully revised and updated to reflect recent developments in the field Includes new chapters on Improvement Approaches, Six Sigma, and new challenges in Quality Management Combines the latest information on the ISO 9000 quality management system series standards with up-to-date tools, techniques and quality systems Material has been re-ordered and changed to bring the book completely up to date. Provides a popular resource for students, academics, and business practitioners alike.

Gives the reader a detailed account of how cyber-security in Switzerland has evolved over the years, using official documents and a considerable amount of inside knowledge. It focuses on key ideas, institutional arrangements, on the publication of strategy papers, and importantly, on processes leading up to these strategy documents. The peculiarities of the Swiss political system, which influence the way cyber-security can be designed and practiced in Switzerland are considered, as well as the bigger, global influences and driving factors that shaped the Swiss approach to cyber-security. It shows that throughout the years, the most important influence on the Swiss policy-approach was the international level, or rather the developments of a cyber-security policy in other states. Even though many of the basic ideas about information-sharing and public-private partnerships were influenced by (amongst others) the US approach to critical infrastructure protection, the peculiarities of the Swiss political system has led to a particular 'Swiss solution', which is based on the federalist structures and subsidiary principles, characterized by stability and resilience to external shocks in the form of cyber-incidents. Cybersecurity in Switzerland will be a stimulating read for anybody interested in cyber-security policy, including students, researchers, analysts and policy makers. It contains not only specific material on an interesting case, but also a wealth of background information on different variations of cyber-security, as well as on information-sharing and public-private partnerships.

Applied Computer Science for GOS Observatories

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

Experimental Investigations on Joining Techniques for Paper Structures

Construction Materials

Wireless and Satellite Systems

The City & Guilds Textbook: Plumbing Book 2 for the Level 3 Apprenticeship (9189), Level 3 Advanced Technical Diploma (8202) and Level 3 Diploma (6035)

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.

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:- 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 (Cameron, 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 properties

"This classic manual on structural steelwork design was first published in 1955, since when it has sold many tens of thousands of copies worldwide. For the seventh edition all chapters have been comprehensively reviewed, revised to ensure they reflect current approaches and best practice, and brought in to compliance with EN 1993: Design of Steel Structures. The Steel Designers' Manual continues to provide, in one volume, the essential knowledge for the student of conventional steelwork. Key Features: Fully revised to comply with the new EUROCODE standards Packed full of tables, analytical design information and worked examples Contributors number leading academics, consulting engineers and fabricators 'A must for anyone involved in steel design' - Journal of Constructional Steel Research"--

Electronics, Communications and Networks IV

Advances in Cyber Security

Cybersecurity in Switzerland

Structural Elements Design Manual: Working with Eurocodes

Building Regulations in Brief

HBN 15

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 Topics' 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.

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 the 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

This volume highlights the latest advances, innovations, and applications in bituminous materials and structures and asphalt pavement technology, as presented by leading international researchers and engineers at the RILEM International Symposium on Bituminous Materials (ISBM), held in Lyon, France on December 14-16, 2020. The symposium represents a joint effort of three RILEM Technical Committees from Cluster F, 264-RAP 'Asphalt Pavement Recycling', 272-PIM 'Phase and Interphase Behaviour of Bituminous Materials', and 278-CHA 'Crack-Healing of Asphalt Pavement Materials'. It covers a diverse range of topics concerning bituminous materials (bitumen, mastics, mixtures) and road, railway and airport pavement structures, including recycling, phase and interphase behaviour, cracking and healing, modification and innovative materials, durability and environmental aspects, testing and modelling, multi-scale properties, surface characteristics, structure performance, modelling and design, non-destructive testing, back-analysis, and Life Cycle Assessment. The contributions, which were selected by means of a rigorous international peer-review process, present a wealth of exciting ideas that will open novel research directions and foster new multidisciplinary collaborations.

This two-volume set LNCS 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.

Computer Security Fundamentals

A Showcase of Principles, Case Studies & Novel Connections Created in the Spirit of Architectural Engineering

Introduction to Polymer Science and Technology

Planning and Design Data

Recent Advances in Chaotic Systems and Synchronization

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

The professional architect's business management bible now encompasses the RIBA Plan of Work 2013 to reflect the very latest practice in today's cutting-edge architectural environment. With an emphasis on the practical aspects of working as an architect, the 9th edition combines clear and comprehensive guidance with a focus on new directions in practice management which will give a modern practice that vital commercial edge. Topics range from starting up a practice and developing a business strategy, to how to win clients, manage people, and handle fees. It includes new sections on topics such as knowledge management, QA, IT and project management too. With its clear, accessible layout, and no-nonsense style aimed at busy architects, this is a must-read for practices of all sizes and the ideal companion to the RIBA Job Book, 9th edition

The background of this research is related to innovative lightweight construction methods for short-term applications realized with highly recyclable materials produced from renewable resources. Specifically, the possibility of using selected paper-based products for design purposes is examined. The main topic discussed regards the state of the art and future potential of joining techniques for assemblies and structures designed with paper-based products. In this context, the preference on paper-tubes for a variety of designs is examined closely. A collection of case studies for selected joining techniques supported with digital tools, fabrication of prototypes and targeted structural experiments demonstrates possibilities and considerations. This book presents the research process and aims to inspire architects, designers and engineers who are eager to discuss on material innovation and the steps that need to be taken to examine the feasibility of such ideas.

Pressure gauges, Bourdon pressure gauges, Pressure measurement (fluids), Industrial, Pressure, Working range, Environment (working), Dimensions, Size, Grades (quality), Accuracy, Errors, Dials, Instrument scales, Graduations, Threads, Taper threads, Screwed fittings, Pipe connections, Holes, Washers, Safety devices, Relief valves, Safety measures, Marking, Designations, Symbols, Type testing, Performance testing, Approval testing, Endurance testing, Pressure testing, Vibration testing, Impact testing, Leak tests, Thermal testing, Calibration, Test equipment, Testing conditions, Oxygen, Acetylene, Packaging

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, rail vehicle control systems 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.

Proceedings of the 2018 CPSF Volume I: Communications

Pressure Gauges, Bourdon Tube Pressure Gauges, Dimensions, Metrology, Requirements and Testing

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

Communications, Signal Processing, and Systems

BRE Digest

Facilities for Pathology Services

"An essential reference resource for any architect or architect student, the Metric Handbook is the major handbook for planning and design data. For each building type, the book gives basic design requirements, principal dimensional data and details of relevant building regulations. The book also contains information on broader aspects of design applicable to all building types, such as materials, acoustics and lighting, and data on human dimensions and space requirements. Significantly updated, the new edition of this work focuses on sustainable design practice to make projects competitive within a green market. As well as a full revision, including additional new building types and the latest updates to regulation and practice, the book features an improved new layout with color images and text to make it easier to find vital information quickly. Metric Handbook is a tried and tested, authoritative reference for solving everyday planning problems - it is a must have for every design office desk and drawing board"

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.

This book combines elementary theory from computer science with real-world challenges in global geodetic observation, based on examples from the Geodetic Observatory Wettzell, Germany. It starts with a step-by-step introduction to developing stable and safe scientific software to run successful software projects. The use of software toolboxes is another essential aspect that leads to the application of generative programming. An example is a generative network middleware that simplifies communication. One of the book's main focuses is on explaining a potential strategy involving autonomous production cells for space geodetic techniques. The complete software design of a satellite laser ranging system is taken as an example. Such automated systems are then combined for global interaction using secure communication tunnels for remote access. The network of radio telescopes is used as a reference. Combined observatories form coordinated multi-agent systems and offer solutions for operational aspects of the Global Geodetic Observing System (GGOS) with regard to Industry 4.0!

RIBA Architects' Handbook of Practice Management

Name Quality

Sustainable Buildings and Structures

Innovative Mobile and Internet Services in Ubiquitous Computing

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

A Handbook of Investigative Techniques, Second Edition

This classic reference has established the value of petrography as a powerful method for the investigation of concrete as a material. It provides an authoritative and well-illustrated review of concrete composition and textures, including the causes of defects, deterioration, and failure that can be identified using a petrological microscope. This new edition is entirely revised and updated and also greatly extended to take account of new scientific developments and significant improvements in instrumentation and to reflect current laboratory working practices, as well as to reflect new understanding of the performance of concrete and related materials. Now in full color throughout, Concrete Petrography, Second Edition provides case study examples, with appropriate explanatory discussions and practical advice on selecting, handling and preparing specimens. It assists and guides the engineer, the trainee and the experienced petrographer in understanding the scientific evidence that is basic to petrographic analysis and so will lead to more accurate and timely diagnosis and treatment of problems in structural concrete. This book includes: Contributions in specialist areas by internationally recognized experts Explanation of computer techniques as an aid to petrography Full coverage of inspection, sampling, and specimen preparation New sections covering recent technological development of equipment Guidance on observation of cement and concrete mineralogy and microfabrics Discussion and illustrative examples of deterioration and failure mechanisms New work and guidance on the determination of water/cement ratio New color illustrations and micrographs throughout Thorough updating of standards, other authoritative publications, and references A fully revised, extended, and updated glossary of optical and other properties

Communication, Coordination and Automation of Future Geodetic Infrastructures

Linux All-in-One Desk Reference For Dummies

Methods of Testing Cement, Determination of Strength

Steel Designers' Manual