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NIGEL DANIKA

Until now there has been no comprehensive pocket reference guide for professional and student structural engineers. The Structural Engineers Pocket Book is a unique compilation of all table, data, facts, formulae and rules of thumb needed for scheme design by structural engineers in the office, in transit or on site. By bringing together data from many sources, this pocket book is a compact source of job-simplifying information at an affordable price. It is a first point of reference as well as saving valuable time spent trying to track down information that is needed on a daily basis. This may be a small book in terms of its physical dimensions, but it contains a wealth of useful engineering knowledge. Concise and precise, the book is split into 13 sections, with quick and clear access to subject areas including: timber, masonry, concrete, aluminium and glass. British Standards are used and referenced throughout. *the only book of its kind for structural engineers. *brings together information from many different sources for the first time. *comprehensive, yet concise and affordable.

Neurological history claims its earliest origins in the 17th century with Thomas Willis's publication of Anatomy of the Brain, coming fully into fruition as a field in the late 1850s as medical technology and advancements allowed for in depth study of the brain. However, many of the foundations in neurology can find the seed of their beginning to a time much earlier than that, to ancient Greece in fact. Neurological Concepts in Ancient Greek Medicine is a collection of essays exploring neurological ideas between the Archaic and Hellenistic eras. These essays also provide historic, intellectual, and cultural context to ancient Greek medical practice and emphasizing the interest in the brain of the early physicians. This book describes source material that is over 2,500 years old and reveals the observational skills of ancient physicians. It provides complete translations of two historic Hippocratic texts: On the Sacred Diseases and On the Wounds of the Head. The book also discusses the Hippocratic Oath and the modern applications of its meaning. Dr. Walshe connects this ancient history, usually buried in medical histories, and shows the ancient Greek notions that are the precursors of our understanding of the brain and nervous system.

From a rare map of yellow fever in eighteenth-century New York, to Charles Booth's famous maps of poverty in nineteenth-century London, an Italian racial zoning map of early twentieth-century Asmara, to a map of wealth disparities in the banlieues of twenty-first-century Paris, Mapping Society traces the evolution of social cartography over the past two centuries. In this richly illustrated book, Laura Vaughan examines maps of ethnic or religious difference, poverty, and health inequalities, demonstrating how they not only serve as historical records of social enquiry, but also constitute inscriptions of social patterns that have been etched deeply on the surface of cities. The book covers themes such as the use of visual rhetoric to change public opinion, the evolution of sociology as an academic practice, changing attitudes to physical disorder, and the complexity of segregation as an urban phenomenon. While the focus is on historical maps, the narrative carries the discussion of the spatial dimensions of social cartography forward to the present day, showing how disciplines such as public health, crime science, and urban planning, chart spatial data in their current practice. Containing examples of space syntax analysis alongside full colour maps and photographs, this volume will appeal to all those interested in the long-term forces that shape how people live in cities.

This IBM Redbooks® publication gives a broad understanding of several important concepts that are used when describing IBM CICS Transaction Server (TS) for IBM z/OS (CICS TS) performance. This publication also describes many of the significant performance improvements that can be realized by upgrading your environment to the most recent release of CICS TS. This book targets the following audience: Systems Architects wanting to understand the performance characteristics and capabilities of a specific CICS TS release. Capacity Planners and Performance Analysts wanting to understand how an upgrade to the latest release of CICS TS affects their environment. Application Developers wanting to design and code highly optimized applications for deployment into a CICS TS environment. This book covers the following topics: A description of the factors that are involved in the interaction between z® Systems hardware and a z/OS software environment. A definition of key terminology that is used when describing the results of CICS TS performance benchmarks. A presentation of how to collect the required data (and the methodology used) when applying Large Scale Performance Reference (LSPR) capacity information to a CICS workload in your environment. An outline of the techniques that are applied by the CICS TS performance team to achieve consistent and accurate performance benchmark

results. High-level descriptions of several key workloads that are used to determine the performance characteristics of a CICS TS release. An introduction to the open transaction environment and task control block (TCB) management logic in CICS TS, including a reference that describes how several configuration attributes combine to affect the behavior of the CICS TS dispatcher. Detailed information that relates to changes in performance characteristics between successive CICS TS releases, covering comparisons that relate to CICS TS V4.2, V5.1, V5.2, V5.3, V5.4, and V5.5. The results of several small performance studies to determine the cost of using a specific CICS functional area.

Fulfill the practical potential of DOE-with a powerful, 16-step approach for applying the Taguchi method Over the past decade, Design of Experiments (DOE) has undergone great advances through the work of the Japanese management guru Genechi Taguchi. Yet, until now, books on the Taguchi method have been steeped in theory and complicated statistical analysis. Now this trailblazing work translates the Taguchi method into an easy-to-implement 16-step system. Based on Ranjit Roy's successful Taguchi training course, this extensively illustrated book/CD-ROM package gives readers the knowledge and skills necessary to understand and apply the Taguchi method to engineering projects-from theory and applications to hands-on analysis of the data. It is suitable for managers and technicians without a college-level engineering or statistical background, and its self-study pace-with exercises included in each chapter-helps readers start using Taguchi DOE tools on the job quickly. Special features include: * An accompanying CD-ROM of Qualitek-4 software, which performs calculations and features all example experiments described in the book * Problem-solving exercises relevant to actual engineering situations, with solutions included at the end of the text * Coverage of two-, three-, and four-level factors, analysis of variance, robust designs, combination designs, and more Engineers and technical personnel working in process and product design-as well as other professionals interested in the Taguchi method-will find this book/CD-ROM a tremendously important and useful asset for making the most of DOE in their work.

The book contains Manual to the Building Regulations for practice in United Kingdom

Fundamental Studies in Engineering 3: Amplitude Distribution Spectrometers reviews amplitude or pulse-height distribution analyzers, both single- and multichannel types, and spectrometers, along with their construction and operation. It discusses the basic parameters of electrical impulses, the general parameters of amplitude distribution spectrometers, the conventional methods of analyzing amplitude distribution by means of single-channel spectrometers, analysis of amplitude spectra using computer methods, and methods and devices for multiparameter amplitude analysis. Comprised of eight chapters, this volume begins with an overview of physical phenomena that can be represented in the form of electrical impulses arising in transducers of physical quantities. It then discusses the use of pulse-height spectrometers to determine the height distributions of electrical impulses, trends in the development of pulse-height spectrometers, conventional pulse-height analysis, and multispectral scaling. The reader is methodically introduced to the analysis of Gaussian distributions, Fourier-transform analysis, and measuring units used in preliminary signal processing. Other chapters focus on spectrogram recording methods, methods of spectrum averaging, computer methods of spectral analysis, and methods of recording multi-parameter spectrograms. The book concludes with a review of the use of pulse-height spectrometers in a wide range of fields such as medicine, biology, astronomy, nuclear research, space research, and physico-chemical research. Users of amplitude spectrometers in various fields of science and technology will find this book extremely useful.

The Fifth International Conference on Advanced Manufacturing Systems and Technology – AMST '99 – aims at presenting up-to-date information on the latest developments research results and industrial experience in the field of machining of conventional and advanced materials, high speed machining, forming, modeling, nonconventional machining processes, new tool materials and tool systems, rapid prototyping, life cycle of products and quality assurance, thus providing an international forum for a beneficial exchange of ideas, and furthering a favourable cooperation between research and industry.

Beginning with IBM® CICS® Version 2, applications can run on TCBs apart from the QR TCB, which has positive implications for improving system throughput and for implementing new technologies inside of CICS. Examples of implementing new technologies include using the IBM MVSTM Java virtual machine (JVM) inside CICS and enabling listener tasks written for other platforms to be

imported to run under CICS. The newest release, CICS Transaction Server for z/OS® (CICS TS) V4.2, includes scalability enhancements so that you can perform more work more quickly in a single CICS system. The advantage of this enhancement is that you can increase vertical scaling and decrease the need to scale horizontally, reducing the number of regions that are required to run the production business applications. The scalability enhancements in CICS TS V4.2 fall into two broad areas, which are increased usage of open transaction environment (OTE) and of 64-bit storage. This IBM Redbooks® publication is a comprehensive guide to threadsafe concepts and implementation for IBM CICS. This book explains how systems programmers, applications developers, and architects can implement threadsafe applications in an environment. It describes the real-world experiences of users, and our own experiences, of migrating applications to be threadsafe. This book also highlights the two most critical aspects of threadsafe applications: system performance and integrity.

Abstract This IBM® Redbooks® publication presents a general introduction to the latest IBM tape and tape library technologies. Featured tape technologies include the IBM LTO Ultrium and Enterprise 3592 tape drives, and their implementation in IBM tape libraries. This 16th edition introduces the new TS1160 tape drive with up to 20 TB capacity on JE media and the latest updates to the IBM TS4500 and TS4300 tape libraries, It includes generalized sections about Small Computer System Interface (SCSI) and Fibre Channel connections, and multipath architecture configurations. This book also covers tools and techniques for library management. It is intended for anyone who wants to understand more about IBM tape products and their implementation. It is suitable for IBM clients, IBM Business Partners, IBM specialist sales representatives, and technical specialists. If you do not have a background in computer tape storage products, you might need to read other sources of information. In the interest of being concise, topics that are generally understood are not covered in detail.

The Second Edition of the bestselling Measurement, Instrumentation, and Sensors Handbook brings together all aspects of the design and implementation of measurement, instrumentation, and sensors. Reflecting the current state of the art, it describes the use of instruments and techniques for performing practical measurements in engineering, physics, chemistry, and the life sciences and discusses processing systems, automatic data acquisition, reduction and analysis, operation characteristics, accuracy, errors, calibrations, and the incorporation of standards for control purposes. Organized according to measurement problem, the Electromagnetic, Optical, Radiation, Chemical, and Biomedical Measurement volume of the Second Edition: Contains contributions from field experts, new chapters, and updates to all 98 existing chapters Covers sensors and sensor technology, time and frequency, signal processing, displays and recorders, and optical, medical, biomedical, health, environmental, electrical, electromagnetic, and chemical variables A concise and useful reference for engineers, scientists, academic faculty, students, designers, managers, and industry professionals involved in instrumentation and measurement research and development, Measurement, Instrumentation, and Sensors Handbook, Second Edition: Electromagnetic, Optical, Radiation, Chemical, and Biomedical Measurement provides readers with a greater understanding of advanced applications.

From 1 April 2005, the revised Approved Document L1 of the Building Regulations sets down revised guidance for the efficiency of hot water central heating gas and oil boilers installed in new and existing dwellings. This guide is to help heating installers carry out a condensing boiler installation assessment using the procedure set out in Appendix G of the revised Approved Document L1.

Nanoelectronic Device Applications Handbook gives a comprehensive snapshot of the state of the art in nanodevices for nanoelectronics applications. Combining breadth and depth, the book includes 68 chapters on topics that range from nano-scaled complementary metal–oxide–semiconductor (CMOS) devices through recent developments in nano capacitors and AlGaAs/GaAs devices. The contributors are world-renowned experts from academia and industry from around the globe. The handbook explores current research into potentially disruptive technologies for a post-CMOS world. These include: Nanoscale advances in current MOSFET/CMOS technology Nano capacitors for applications such as electronics packaging and humidity sensors Single electron transistors and other electron tunneling devices Quantum cellular automata and nanomagnetic logic Memristors as switching devices and for memory Graphene preparation, properties, and devices Carbon nanotubes (CNTs), both single CNT and random network Other CNT applications such as terahertz, sensors, interconnects, and capacitors Nano system architectures for reliability Nanowire device

fabrication and applications Nanowire transistors Nanodevices for spintronics The book closes with a call for a new generation of simulation tools to handle nanoscale mechanisms in realistic nanodevice geometries. This timely handbook offers a wealth of insights into the application of nanoelectronics. It is an invaluable reference and source of ideas for anyone working in the rapidly expanding field of nanoelectronics.

One of the basic principles that underpin the learning sciences is to improve theories of learning through the design of powerful learning environments that can foster meaningful learning. Learning sciences researchers prefer to research learning in authentic contexts. They collect both qualitative and quantitative data from multiple perspectives and follow developmental micro-genetic or historical approaches to data observation. Learning sciences researchers conduct research with the intention of deriving design principles through which change and innovation can be enacted. Their goal is to conduct research that can sustain transformations in schools. We need to be cognizant of research that can inform and lead to sustainable and scalable models of innovation. In order to do so, we need to take an inter-disciplinary view of learning, such as that embraced by the learning sciences. This publication focuses on learning sciences in the Asia-Pacific context. There are researchers and young academics within the Asia-Pacific Society for Computers in Education (APSCE) community who are concerned with issues of conducting research that can be translated into practice. Changes in practice are especially important to Asian countries because their educational systems are more centralized. That is why there is a need to reform pedagogy in a more constructivist and social direction in a scalable way.

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

A practical guide to the principle services of facilities management, revised and updated The updated third edition of Facilities Manager's Desk Reference is an invaluable resource covering all the principal facility management (FM) services. The author—a noted facilities management expert—provides the information needed to ensure compliance to current laws, to deliver opportunities to adopt new ways of using built environments, and to identify creative ways to reduce operational occupancy costs, while maintaining appropriate and productive working environment standards. The third edition is fully updated and written in an approachable and concise format. It is comprehensive in scope, the author covering both hard and soft facilities management issues. Since the first edition was published it has become a first point of reference for busy facilities managers, saving them time by providing access to the information needed to ensure the safe, effective and efficient running of any facilities function. This important book: Has been fully updated, reviewing the essential data covering the principal FM services Is highly practical, ideal for the busy FM practitioner Presents information on legal compliance issues, the development of strategic policies, tactical best practices, and much more Is a time-saving resource that brings together essential, useful, and practical FM information in one handy volume; Written for students and professional facilities managers, Facilities Manager's Desk Reference is designed as a practical resource that offers FMs assistance in finding solutions to the myriad demands of the job.

It's 1940, and Britain is at war. Young Chas McGill has the second-best collection of war souvenirs in town, but desperately wants it to be the best. Amidst the bombs and air raids, Chas and his friends plan their own war effort in their newly built bunker. Friendships are forged and loyalties tested, in the adventure of a

lifetime. Robert Westall's "The Machine Gunners" has been read, studied - and loved - by successive generations of younger readers. It won the Carnegie Medal and was voted one of the most important children's novels of the past seventy years. This thrilling stage adaptation comes from the award-winning playwright Ali Taylor, and premiered at the Polka Theatre, London. It provides rich opportunities for discussion in the classroom, and for staging by schools, youth theatres and amateur companies.

A thorough and self-contained treatment for SAS® userspreparing for the Base Programming Certification Exam for SAS®9—complete with explanations, tips, and practice examquestions SAS® 9 Study Guide is designed to help users of SAS® 9become familiar with the fine points of the software as well asdevelop solid study strategies that will shorten preparation timeand ensure successful exam results. The following five study topicsare addressed with a focused chapter devoted to each: accessingdata; creating data structures; managing data; generating reports;and handling errors. SAS® 9 Study Guide provides both aconceptual and practical approach to each of these areas withdetailed explanations followed by examples. Each chapter presents concepts, processes, and applications in aclear, step-by-step format along with detailed explanations andexamples. Individual chapters also contain: A Two-Minute Drill that provides a checklist of key points forreview An Assessment Exam, which challenges readers to provide short-answers detailingthe chapter's coverage of SAS® 9 A Practice Exam, which reinforces content and familiarizesreaders with the structure ofthe actual Base ProgrammingCertification Exam Written by a practicing SAS® Certified Professional, thisbook is an intensive, but accessible, review for preparing for theBase Programming Certification Exam for SAS® 9 and can alsoserve as a practical reference tool for established certifiedprofessionals who would like to further their knowledge ofSAS® 9.

MicroC/OS II Second Edition describes the design and implementation of the MicroC/OS-II real-time operating system (RTOS). In addition to its value as a reference to the kernel, it is an extremely detailed and highly readable design study particularly useful to the embedded systems student. While documenting the design and implementation of the ker

The Microsoft Technology Associate certification (MTA) curriculum helps instructors teach and validate fundamental technology concepts with a foundation for students' careers and to build the confidence they need to succeed in advanced studies. Through the use of MOAC MTA titles you can help ensure your students future success in and out of the classroom. This MTA text covers the following HTML5 Application vital fundamental skills: • Manage the Application Life Cycle • Build the User Interface by Using HTML5 • Format the User Interface by Using CSS • Code by Using JavaScript Click here to learn more about the Microsoft Technology Associate (MTA), a new and innovative certification track designed to provide a pathway for future success in technology courses and careers.

Accessible introduction to the theoretical foundations of modern coding theory Including numerous applications to wireless transmission systems The author is famous in the field of coding and wireless communications for his work in the area of faded channels & communcations.

This book is about digital system testing and testable design. The concepts of testing and testability are treated together with digital design practices and methodologies. The book uses Verilog models and testbenches for implementing and explaining fault simulation and test generation algorithms. Extensive use of Verilog and Verilog PLI for test applications is what distinguishes this book from other test and testability books. Verilog eliminates ambiguities in test algorithms and BIST and DFT hardware architectures, and it clearly describes the architecture of the testability hardware and its test sessions. Describing many of the on-chip decompression algorithms in Verilog helps to evaluate these algo-

rithms in terms of hardware overhead and timing, and thus feasibility of using them for System-on-Chip designs. Extensive use of testbenches and testbench development techniques is another unique feature of this book. Using PLI in developing testbenches and virtual testers provides a powerful programming tool, interfaced with hardware described in Verilog. This mixed hardware/software environment facilitates description of complex test programs and test strategies.

FiTeq is an IBM® Business Partner that specializes in fraud prevention technologies for the payments industry. This IBM Redpaper™ publication records the methodologies and results of a performance benchmark using the FiTeq Authenticator, which is a component of FiTeq's family of Secure Transaction Solutions. The FiTeq Authenticator is an IBM CICS® enabled application that was run under CICS Transaction Server for z/OS® V5.1 in this benchmark. The performance benchmark was conducted as a joint venture between IBM and FiTeq in January 2014. In summary, the following FiTeq Authenticator application performance characteristics were demonstrated: A scalable solution: CPU usage scales linearly as the number of transactions per second increases. Cost-effective: Approximately only 500 microseconds of CPU per transaction were used for the single configuration. Efficient: Average response times below 20 milliseconds per transaction were maintained at a transaction rate exceeding 8,000 per second. These benchmark test results confirmed and validated that the FiTeq Authenticator is, in conjunction with the performance, reliability, and scalability provided by IBM z/OS and CICS architectures and associated hardware, fully capable of satisfying the requirements of all top financial institutes. As a by-product of the FiTeq Authenticator performance test, the IBM World-Wide Solutions-Cross ISV Sizing team developed a FiTeq Authenticator Sizing Tool to forecast system requirements based on the transactions per second (TPS) and other system requirements of any future FiTeq client. As a result, the IBM pre-sale team and the FiTeq marketing team will be able to recommend the best fit and most cost-effective IBM software and hardware solution for a particular FiTeq client. Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon many factors, including considerations, such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve results similar to those stated here.

No judgement of taste is innocent - we are all snobs. Pierre Bourdieu's Distinction brilliantly illuminates the social pretentions of the middle classes in the modern world, focusing on the tastes and preferences of the French bourgeoisie. First published in 1979, the book is at once a vast ethnography of contemporary France and a dissection of the bourgeois mind. In the course of everyday life we constantly choose between what we find aesthetically pleasing, and what we consider tacky, merely trendy, or ugly. Taste is not pure. Bourdieu demonstrates that our different aesth

This book includes some of the most original and influential contributions to logic and the philosophy of logic during the past twenty years. It contains thirty-five essays, many of which started new trends in logic. For example, some of the essays in Part One gave birth to what is now known as free logic, and some of the essays in Part Two were among the earliest contributions to what is now known as truth-value semantics. The essays in Part Three are contributions to and improvements of already extant logics, such as intuitionistic logic, natural deduction, and the logic of sequents. Introductions to the parts of the book cover the history of the contributions and their importance. The essays have been thoroughly revised since their publication in learned journals.