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Designing Data-Intensive Applications Web Application Design Handbook **CUDA Application Design and Development Web Application Design Patterns** JavaScript Application Design **Ergonomics for the Layman** *Mix-design and Application of Hydraulic Grouts for Masonry Strengthening Pharmaceutical Isolators* **Web Application Design Patterns** GUI Design for Android Apps *Web Application Design and Implementation Grid Application Systems Design* Medical Instrumentation **Expert ASP.NET 2.0 Advanced Application Design** Nature-Inspired Computing for Smart Application Design **Joint Application Design Medical Instrumentation Application Development and Design: Concepts, Methodologies, Tools, and Applications** *Mobile Learning Design Designing the Obvious* Distributed Control Applications *Expert PHP and MySQL* Cross-Over Experiments *Process-control Systems* Design Patterns for Cloud Native Applications *New Frontiers in Information and Software as Services* Visual Usability IBM WebSphere Application Server V8 Concepts, Planning, and Design Guide *Geosystems: Design Rules and Applications* **Flash Application Design Solutions Designing the Mobile User Experience Universal Design for Web Applications Modern Deep Learning Design and Application Development** Understanding Virtual Reality *Design and Application of Biomedical Circuits and Systems* **Process Design Manual for Land Application of Municipal Sludge** *Lighting Design & Application* **Spring 5 Design Patterns** Design, Control, and Application of Modular Multilevel Converters for HVDC Transmission Systems **Measurement Systems**

Web Application Design Patterns Jul 30 2022 Ever notice that—in spite of their pervasiveness—designing web applications is still challenging? While their benefits motivate their creation, there are no well-established guidelines for design. This often results in inconsistent behaviors and appearances, even among web applications created by the same company. Design patterns for web applications, similar in concept to those for web sites and software design, offer an effective solution. In Web Application Design Patterns, Pawan Vora documents design patterns for web applications by not only identifying design solutions for user interaction problems, but also by examining the rationale for their effectiveness, and by presenting how they should be applied. Design interfaces faster, with a better rationale for the solutions you choose. Learn from over more than 100 patterns, with extensive annotation on use and extension. Take a short-cut into understanding the industry with more than 500 full-color screenshots.

Distributed Control Applications Feb 10 2021 Distributed Control Applications: Guidelines, Design Patterns, and Application Examples with the IEC 61499 discusses the IEC 61499 reference architecture for distributed and reconfigurable control and its adoption by industry. The book provides design patterns, application guidelines, and rules for designing distributed control applications based on the IEC 61499 reference model. Moreover, examples from various industrial domains and laboratory environments are introduced and explored.

Nature-Inspired Computing for Smart Application Design Aug 19 2021 This book focuses primarily on the nature-inspired approach for designing smart applications. It includes several implementation paradigms such as design and path planning of wireless network, security mechanism and implementation for dynamic as well as static nodes, learning method of cloud computing, data exploration and management, data analysis and optimization, decision taking in conflicting environment, etc. The book fundamentally highlights the recent research advancements in the field of engineering and science.

Designing the Mobile User Experience Apr 02 2020 Gain the knowledge and tools to deliver compelling mobile phone applications. Mobile and wireless application design is complex and challenging. Selecting an application technology and designing a mobile application require an understanding of the benefits, costs, context, and restrictions of the development company, end user, target device, and industry structure. Designing the Mobile User Experience provides the experienced product development professional with an understanding of the users, technologies, devices, design principles, techniques and industry players unique to the mobile and wireless space. Barbara Ballard describes the different components affecting the user experience and principles applicable to the mobile environment, enabling the reader to choose effective technologies, platforms, and devices, plan appropriate application features, apply pervasive design patterns, and choose and apply appropriate research techniques. Designing the Mobile User Experience: Provides a comprehensive guide to the mobile user experience, offering guidance to help make appropriate product development and design decisions. Gives product

development professionals the tools necessary to understand development in the mobile environment. Clarifies the components affecting the user experience and principles uniquely applicable to the mobile application field. Explores industry structure and power dynamics, providing insight into how mobile technologies and platforms become available on current and future phones. Provides user interface design patterns, design resources, and user research methods for mobile user interface design. Illustrates concepts with example photographs, explanatory tables and charts, and an example application. Designing the Mobile User Experience is an invaluable resource for information architects, user experience planners and designers, interaction designers, human factors specialists, ergonomists, product marketing specialists, and brand managers. Managers and directors within organizations entering the mobile space, advanced students, partnership managers, software architects, solution architects, development managers, graphic designers, visual designers, and interface designers will also find this to be an excellent guide to the topic.

New Frontiers in Information and Software as Services Sep 07 2020 The increasing costs of creating and maintaining infrastructures for delivering services to consumers have led to the emergence of cloud based third party service providers renting networks, computation power, storage, and even entire software application suites. On the other hand, service customers demand competitive pricing, service level agreements, and increased flexibility and scalability. Service consumers also expect process and data security, 24/7 service availability, and compliance with privacy regulations. This book focuses on such challenges associated with the design, implementation, deployment, and management of data and software as a service. The 12 papers presented in this volume were contributed by leaders in academia and industry, and were reviewed and supervised by an expert editorial board. They describe cutting-edge approaches in areas like service design, service security, service optimization, and service migration.

Expert ASP.NET 2.0 Advanced Application Design Sep 19 2021 * This book surveys the different technologies and servers that are available for you to use with ASP.NET and maps the "Quality Attributes" of Application Architecture for these different servers. * The author has been using ASP.NET since the technology preview of the .NET 1.0 Framework. He has put scores of ASP.NET applications into production for large enterprise companies and universities. * This book is written with today's technology, with an eye on the future.

Web Application Design Patterns Feb 22 2022 In "Web Application Design Patterns," Vora documents design patterns for Web applications by not only identifying design solutions for user interaction problems, but also by examining the rationale for their effectiveness, and by presenting how they should be applied. This text includes more than 500 full-color screenshots and access to a Web site for help, discussion, and a collection of additional patterns.

Geosystems: Design Rules and Applications Jun 04 2020 Geotextile encapsulated sand elements are three-dimensional systems manufactured from textile materials, non-woven materials or combinations of textile and non-woven materials that are filled with sand on-site. These systems are relatively new and the number of applications is growing in river and coastal engineering. Quite often Geosystems are men

Grid Application Systems Design Nov 21 2021 Grid computing is an emerging technology designed for high-powered applications. Grid Application Systems Design shows how to unleash the high performance of Grid technology. It begins by delving into the history and theory of grid computing, providing background on the concepts, terminology, and issues surrounding it. The book then examines design issues inherent in using Grid technology and a highly distributed computing model. These issues include data updating, data retrieval, concurrency, maintenance, and security concerns. The book also takes an in-depth look at the advantages of migrating toward this new computing architecture and the possibilities it holds for users. The author addresses such issues as high capacity bandwidth and interconnection requirements that relate to managers and administrators. Lastly, the book explores the design decisions, issues, and opportunities that must be tackled by the designer, the developer, and the data administrator involved in creating applications for this new paradigm.

Joint Application Design Jul 18 2021 Joint Application Design (JAD) is a software design methodology developed by IBM to enhance application design productivity and quality. This practical guidebook gives users the benefit of MIS professionals before problems arise.

Design, Control, and Application of Modular Multilevel Converters for HVDC Transmission Systems Jul 26 2019 Design, Control and Application of Modular Multilevel Converters for HVDC Transmission Systems is a comprehensive guide to semiconductor technologies applicable for MMC design, component sizing control, modulation, and application of the MMC technology for HVDC transmission. Separated into three distinct parts, the first offers an overview of MMC technology, including information on converter component sizing, Control and Communication, Protection and Fault Management, and Generic Modelling and Simulation. The second covers the applications of MMC in offshore WPP, including planning, technical and economic requirements and

optimization options, fault management, dynamic and transient stability. Finally, the third chapter explores the applications of MMC in HVDC transmission and Multi Terminal configurations, including Supergrids. Key features: Unique coverage of the offshore application and optimization of MMC-HVDC schemes for the export of offshore wind energy to the mainland. Comprehensive explanation of MMC application in HVDC and MTDC transmission technology. Detailed description of MMC components, control and modulation, different modeling approaches, converter dynamics under steady-state and fault contingencies including application and housing of MMC in HVDC schemes for onshore and offshore. Analysis of DC fault detection and protection technologies, system studies required for the integration of HVDC terminals to offshore wind power plants, and commissioning procedures for onshore and offshore HVDC terminals. A set of self-explanatory simulation models for HVDC test cases is available to download from the companion website. This book provides essential reading for graduate students and researchers, as well as field engineers and professionals who require an in-depth understanding of MMC technology.

Designing the Obvious Mar 14 2021 Designing the Obvious belongs in the toolbox of every person charged with the design and development of Web-based software, from the CEO to the programming team. Designing the Obvious explores the character traits of great Web applications and uses them as guiding principles of application design so the end result of every project instills customer satisfaction and loyalty. These principles include building only whats necessary, getting users up to speed quickly, preventing and handling errors, and designing for the activity. Designing the Obvious does not offer a one-size-fits-all development process--in fact, it lets you use whatever process you like. Instead, it offers practical advice about how to achieve the qualities of great Web-based applications and consistently and successfully reproduce them. This latest edition updates examples to show the guiding principles of application design in action on today's web, plus adds new chapters on strategy and persuasion. It offers practical advice about how to achieve the qualities of great Web-based applications and consistently and successfully reproduce them.

CUDA Application Design and Development Aug 31 2022 The book then details the thought behind CUDA and teaches how to create, analyze, and debug CUDA applications. Throughout, the focus is on software engineering issues: how to use CUDA in the context of existing application code, with existing compilers, languages, software tools, and industry-standard API libraries."--Pub. desc.

Cross-Over Experiments Dec 11 2020 Developing a model-based approach that enables any cross-over trial, of any degree of imbalance, to be analyzed both for direct effects and for residual effects, using consistent procedures that employ commercially available statistical software, this text offers a guide to the analysis of cross-over designs.;Illustrating practical applications throughout with examples, this book: emphasizes the importance of choosing highly efficient designs that separate treatment and carryover effects; demonstrates the exact methodology needed to handle the analysis of data; presents a new methodology for the analysis of binary and categorical data; and considers the effects of blocking. The appendices facilitate the choosing of an appropriate design for every experimental need.

Web Application Design Handbook Oct 01 2022 The standards for usability and interaction design for Web sites and software are well known. While not everyone uses those standards, or uses them correctly, there is a large body of knowledge, best practice, and proven results in those fields, and a good education system for teaching professionals "how to." For the newer field of Web application design, however, designers are forced to reuse the old rules on a new platform. This book provides a roadmap that will allow readers to put complete working applications on the Web, display the results of a process that is running elsewhere, and update a database on a remote server using an Internet rather than a network connection. Web Application Design Handbook describes the essential widgets and development tools that will the lead to the right design solutions for your Web application. Written by designers who have made significant contributions to Web-based application design, it delivers a thorough treatment of the subject for many different kinds of applications, and provides quick reference for designers looking for some fast design solutions and opportunities to enhance the Web application experience. This book adds flavor to the standard Web design genre by juxtaposing Web design with programming for the Web and covers design solutions and concepts, such as intelligent generalization, to help software teams successfully switch from one interface to another. * The first interaction design book that focuses exclusively on Web applications. * Full-color figures throughout the book. * Serves as a "cheat sheet" or "fake book" for designers: a handy reference for standards, rules of thumb, and tricks of the trade. * Applicable to new Web-based applications and for porting existing desktop applications to Web browsers.

Modern Deep Learning Design and Application Development Jan 30 2020 Learn how to harness modern deep-learning methods in many contexts. Packed with intuitive theory, practical implementation methods, and deep-learning case studies, this book reveals how to acquire the tools you need to design and implement like a

deep-learning architect. It covers tools deep learning engineers can use in a wide range of fields, from biology to computer vision to business. With nine in-depth case studies, this book will ground you in creative, real-world deep learning thinking. You'll begin with a structured guide to using Keras, with helpful tips and best practices for making the most of the framework. Next, you'll learn how to train models effectively with transfer learning and self-supervised pre-training. You will then learn how to use a variety of model compressions for practical usage. Lastly, you will learn how to design successful neural network architectures and creatively reframe difficult problems into solvable ones. You'll learn not only to understand and apply methods successfully but to think critically about it. Modern Deep Learning Design and Methods is ideal for readers looking to utilize modern, flexible, and creative deep-learning design and methods. Get ready to design and implement innovative deep-learning solutions to today's difficult problems. What You'll Learn Improve the performance of deep learning models by using pre-trained models, extracting rich features, and automating optimization. Compress deep learning models while maintaining performance. Reframe a wide variety of difficult problems and design effective deep learning solutions to solve them. Use the Keras framework, with some help from libraries like HyperOpt, TensorFlow, and PyTorch, to implement a wide variety of deep learning approaches. Who This Book Is For Data scientists with some familiarity with deep learning to deep learning engineers seeking structured inspiration and direction on their next project. Developers interested in harnessing modern deep learning methods to solve a variety of difficult problems.

Expert PHP and MySQL Jan 12 2021 Expert PHP and MySQL takes you beyond learning syntax to showing you how to apply proven software development methods to building commerce-grade PHP and MySQL projects that will stand the test of time and reliably deliver on customer needs. Developers of real-world applications face numerous problems that seem trivial on the surface, but really do take some skill to get right. Error handling is about more than just the mechanics in the PHP syntax, but also about handling MySQL errors, logging those errors, and about hiding information about application internals that error messages sometimes can expose. Meet these challenges and more head-on! Author Marc Rochkind shows how to begin a project right, with a clear contract and set of written requirements. You'll learn about project organization, setting up a solid development environment, connecting with client personnel. Database design is essential, and Expert PHP and MySQL has you covered with guidance on creating a sound model and database, and on pushing functionality into the database as appropriate; not everything should be done in PHP. Error handling is covered at both the PHP and MySQL levels. Application structure is covered. Guidance is provided on reporting. And finally there is conversion. In Expert PHP and MySQL you'll explore the following: The popular and widely used combination of PHP and MySQL Commercial-grade application of language and database features Human factors such as planning and organization Organizing a project to meet requirements and satisfy the customer Structuring an application for efficient development and future modification Coding PHP for productivity, reliability, security Generating online, downloadable, and printed reports Converting existing data to the new application

Measurement Systems Jun 24 2019 Types of applications of measurement instrumentation. Generalized configurations and functional descriptions of measuring instruments. Measuring devices. Manipulation, transmission, and recording of data.

Ergonomics for the Layman May 28 2022 This book explains the application of ergonomics in three different areas of design, namely product, space, and communication. The book is written in layman's language and provides examples so that the reader can easily apply the principles to their designs. This book is easy to understand for those without a background in science and technology. It provides a guide for designers from diverse fields ranging from product design to graphic design and shows how to apply ergonomic principles in products from hand-held products to larger products. It explains the application of anthropometric dimensions, as well as how to design for different spaces ranging from bathrooms to cinema halls. It also focuses on the application of communication ranging from displays to graphic design and discusses the significance of color selection. This book is ideal for all design students, practicing designers in any field, design faculty, entry-level engineering students, and anyone who is interested in exploring the field of ergonomics. Features Specifically written in such a way to make it easily understood for those not educated in the field Shows how to apply the ergonomic principles in design Provides an overview of the topic of ergonomics Written in a storytelling format

Spring 5 Design Patterns Aug 26 2019 Learn various design patterns and best practices in Spring 5 and use them to solve common design problems. About This Book Explore best practices for designing an application Manage your code easily with Spring's Dependency Injection pattern Understand the benefits that the right design patterns can offer your toolkit Who This Book Is For This book is for developers who would like to use design patterns to address common problems while designing an app using the Spring Framework and Reactive Programming approach. A basic knowledge of the Spring Framework and Java is assumed. What You Will Learn

Develop applications using dependency injection patterns Learn best practices to design enterprise applications Explore Aspect-Oriented Programming relating to transactions, security, and caching. Build web applications using traditional Spring MVC patterns Learn to configure Spring using XML, annotations, and Java. Implement caching to improve application performance. Understand concurrency and handle multiple connections inside a web server. Utilizing Reactive Programming Pattern to build Reactive web applications. In Detail Design patterns help speed up the development process by offering well tested and proven solutions to common problems. These patterns coupled with the Spring framework offer tremendous improvements in the development process. The book begins with an overview of Spring Framework 5.0 and design patterns. You will understand the Dependency Injection pattern, which is the main principle behind the decoupling process that Spring performs, thus making it easier to manage your code. You will learn how GoF patterns can be used in Application Design. You will then learn to use Proxy patterns in Aspect Oriented Programming and remoting. Moving on, you will understand the JDBC template patterns and their use in abstracting database access. Then, you will be introduced to MVC patterns to build Reactive web applications. Finally, you will move on to more advanced topics such as Reactive streams and Concurrency. At the end of this book, you will be well equipped to develop efficient enterprise applications using Spring 5 with common design patterns Style and approach The book takes a pragmatic approach, showing various design patterns and best-practice considerations, including the Reactive programming approach with the Spring 5 Framework and ways to solve common development and design problems for enterprise applications.

Application Development and Design: Concepts, Methodologies, Tools, and Applications May 16 2021 Advancements in technology have allowed for the creation of new tools and innovations that can improve different aspects of life. These applications can be utilized across different technological platforms. Application Development and Design: Concepts, Methodologies, Tools, and Applications is a comprehensive reference source for the latest scholarly material on trends, techniques, and uses of various technology applications and examines the benefits and challenges of these computational developments. Highlighting a range of pertinent topics such as software design, mobile applications, and web applications, this multi-volume book is ideally designed for researchers, academics, engineers, professionals, students, and practitioners interested in emerging technology applications.

Lighting Design & Application Sep 27 2019

Pharmaceutical Isolators Mar 26 2022 This work considers the basic concepts, definitions, and standards necessary in the design, construction, commissioning, maintenance, and use of pharmaceutical isolators.

Design Patterns for Cloud Native Applications Oct 09 2020 With the immense cost savings and scalability the cloud provides, the rationale for building cloud native applications is no longer in question. The real issue is how. With this practical guide, developers will learn about the most commonly used design patterns for building cloud native applications using APIs, data, events, and streams in both greenfield and brownfield development. You'll learn how to incrementally design, develop, and deploy large and effective cloud native applications that you can manage and maintain at scale with minimal cost, time, and effort. Authors Kasun Indrasiri and Sriskandarajah Suhothayan highlight use cases that effectively demonstrate the challenges you might encounter at each step. Learn the fundamentals of cloud native applications Explore key cloud native communication, connectivity, and composition patterns Learn decentralized data management techniques Use event-driven architecture to build distributed and scalable cloud native applications Explore the most commonly used patterns for API management and consumption Examine some of the tools and technologies you'll need for building cloud native systems

Universal Design for Web Applications Mar 02 2020 Describes how to use such standards-based technologies as XHTML, CSS, and Ajax to develop a variety of Web applications and devices.

Medical Instrumentation Jun 16 2021 Provides a comprehensive overview of the basic concepts behind the application and designs of medical instrumentation This premiere reference on medical instrumentation describes the principles, applications, and design of the medical instrumentation most commonly used in hospitals. It places great emphasis on design principles so that scientists with limited background in electronics can gain enough information to design instruments that may not be commercially available. The revised edition includes new material on microcontroller-based medical instrumentation with relevant code, device design with circuit simulations and implementations, dry electrodes for electrocardiography, sleep apnea monitor, Infusion pump system, medical imaging techniques and electrical safety. Each chapter includes new problems and updated reference material that covers the latest medical technologies. Medical Instrumentation: Application and Design, Fifth Edition covers general concepts that are applicable to all instrumentation systems, including the static and dynamic characteristics of a system, the engineering design process, the commercial development and regulatory classifications, and the electrical safety, protection, codes and standards for medical devices. The readers learn

about the principles behind various sensor mechanisms, the necessary amplifier and filter designs for analog signal processing, and the digital data acquisition, processing, storage and display using microcontrollers. The measurements of both cardiovascular dynamics and respiratory dynamics are discussed, as is the developing field of biosensors. The book also covers general concepts of clinical laboratory instrumentation, medical imaging, various therapeutic and prosthetic devices, and more. Emphasizes design throughout so scientists and engineers can create medical instruments Updates the coverage of modern sensor signal processing New material added to the chapter on modern microcontroller use Features revised chapters, descriptions, and references throughout Includes many new worked out examples and supports student problem-solving Offers updated, new, and expanded materials on a companion webpage Supplemented with a solutions manual containing complete solutions to all problems Medical Instrumentation: Application and Design, Fifth Edition is an excellent book for a senior to graduate-level course in biomedical engineering and will benefit other health professionals involved with the topic.

Web Application Design and Implementation Dec 23 2021 Helps learn how to combine different technologies to create sophisticated, database-driven Web sites. This book allows readers to gain the programming knowledge needed to build a database-driven Web site using a step-by-step approach. It explains each stage of Web site development - from installation to production of the site.

IBM WebSphere Application Server V8 Concepts, Planning, and Design Guide Jul 06 2020 This IBM® Redbooks® publication provides information about the concepts, planning, and design of IBM WebSphere® Application Server V8 environments. The target audience of this book is IT architects and consultants who want more information about the planning and designing of application-serving environments, from small to large, and complex implementations. This book addresses the packaging and features in WebSphere Application Server V8 and highlights the most common implementation topologies. It provides information about planning for specific tasks and components that conform to the WebSphere Application Server environment. Also in this book are planning guidelines for WebSphere Application Server V8 and WebSphere Application Server Network Deployment V8 on distributed platforms and for WebSphere Application Server for z/OS® V8. This book contains information about migration considerations when moving from previous releases.

Flash Application Design Solutions May 04 2020 *Over one million Flash developers worldwide. The book supports the new version of Flash, due later on this year *The only up-to-date book that focuses on usable Flash design *Mimics Dan Cederholm's best-selling Web Standards Solutions—broadening the Solutions series

JavaScript Application Design Jun 28 2022 Summary JavaScript Application Design: A Build First Approach introduces JavaScript developers to techniques that will improve the quality of their software as well as their web development workflow. You'll begin by learning how to establish build processes that are appropriate for JavaScript-driven development. Then, you'll walk through best practices for productive day-to-day development, like running tasks when your code changes, deploying applications with a single command, and monitoring the state of your application once it's in production. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book The fate of most applications is often sealed before a single line of code has been written. How is that possible? Simply, bad design assures bad results. Good design and effective processes are the foundation on which maintainable applications are built, scaled, and improved. For JavaScript developers, this means discovering the tooling, modern libraries, and architectural patterns that enable those improvements. JavaScript Application Design: A Build First Approach introduces techniques to improve software quality and development workflow. You'll begin by learning how to establish processes designed to optimize the quality of your work. You'll execute tasks whenever your code changes, run tests on every commit, and deploy in an automated fashion. Then you'll focus on designing modular components and composing them together to build robust applications. This book assumes readers understand the basics of JavaScript. What's Inside Automated development, testing, and deployment processes JavaScript fundamentals and modularity best practices Modular, maintainable, and well-tested applications Master asynchronous flows, embrace MVC, and design a REST API About the Author Nicolas Bevacqua is a freelance developer with a focus on modular JavaScript, build processes, and sharp design. He maintains a blog at ponyfoo.com. Table of Contents PART 1 BUILD PROCESSES Introduction to Build First Composing build tasks and flows Mastering environments and the development workflow Release, deployment, and monitoring PART 2 MANAGING COMPLEXITY Embracing modularity and dependency management Understanding asynchronous flow control methods in JavaScript Leveraging the Model-View-Controller Testing JavaScript components REST API design and layered service architectures

Visual Usability Aug 07 2020 Imagine how much easier creating web and mobile applications would be if you had a practical and concise, hands-on guide to visual design. Visual Usability gets into the nitty-gritty of applying visual

design principles to complex application design. You'll learn how to avoid common mistakes, make informed decisions about application design, and elevate the ordinary. We'll review three key principles that affect application design – consistency, hierarchy, and personality – and illustrate how to apply tools like typography, color, and layout to digital application design. Whether you're a UI professional looking to fine-tune your skills, a developer who cares about making applications beautiful and usable, or someone entirely new to the design arena, Visual Usability is your one-stop, practical guide to visual design. Discover the principles and rules that underlie successful application design Learn how to develop a rationale to support design strategy and move teams forward Master the visual design toolkit to increase user-friendliness and make complicated processes feel straightforward for your product

Understanding Virtual Reality Dec 31 2019 Understanding Virtual Reality: Interface, Application, and Design, Second Edition, arrives at a time when the technologies behind virtual reality have advanced dramatically in their development and deployment, providing meaningful and productive virtual reality applications. The aim of this book is to help users take advantage of ways they can identify and prepare for the applications of VR in their field, whatever it may be. The included information counters both exaggerated claims for VR, citing dozens of real-world examples. By approaching VR as a communications medium, the authors have created a resource that will remain relevant even as the underlying technologies evolve. You get a history of VR, along with a good look at systems currently in use. However, the focus remains squarely on the application of VR and the many issues that arise in application design and implementation, including hardware requirements, system integration, interaction techniques and usability. Features substantive, illuminating coverage designed for technical or business readers and the classroom Examines VR's constituent technologies, drawn from visualization, representation, graphics, human-computer interaction and other fields Provides (via a companion website) additional case studies, tutorials, instructional materials and a link to an open-source VR programming system Includes updated perception material and new sections on game engines, optical tracking, VR visual interface software and a new glossary with pictures

Medical Instrumentation Oct 21 2021 This book provides biomedical engineers with the premiere reference on medical instrumentation as well as a comprehensive overview of the basic concepts. The revised edition features new material on infant apnea monitors, impedance pneumography, the design of cardiac pacemakers, and disposable defibrillator electrodes and their standards. Each chapter includes new problems and updated reference material that cover the latest medical technologies. The chapters have also been revised with new material in medical imaging, providing biomedical engineers with the most current techniques in the field.

GUI Design for Android Apps Jan 24 2022 GUI Design for Android Apps is the perfect—and concise—introduction for mobile app developers and designers. Through easy-to-follow tutorials, code samples, and case studies, the book shows the must-know principles for user-interface design for Android apps running on the Intel platform, including smartphones, tablets and embedded devices. This book is jointly developed for individual learning by Intel Software College and China Shanghai JiaoTong University, and is excerpted from Android Application Development for the Intel® Platform.

Mobile Learning Design Apr 14 2021 This book focuses on mobile learning design from both theoretical and practical perspectives. It introduces and discusses how mobile learning can be effectively integrated into curricula, highlighting the design of four key components of learning-centric pedagogy: Resource, Activity, Support and Evaluation in the context of mobile learning. It also investigates the learning theories underpinning mobile learning design, and includes case studies in different contexts. It provides practical insights that allow teachers to change and transform teaching practices using mobile technology. Anyone involved in mobile-technology enhanced learning and teaching will find this book both informative and useful.

Mix-design and Application of Hydraulic Grouts for Masonry Strengthening Apr 26 2022 Descripción del editor: "This book provides guidance for the rational design and application of hydraulic grouts, based on a series of specific data (type of masonry, voids' width, targeted strength and durability level, available materials, etc.). To this end, the basic characteristics of a grout, i.e. its injectability (penetrability, fluidity and stability), its strength and durability, are taken into account by means of rational models and quantified expressions of all grout-design parameters. Thus, a holistic, rational mix design methodology for optimization of grout composition is given, permitting the preliminary design of grouts, without having to resort to multiple tests in advance. Moreover, detailed practical guidelines for grouting application and quality control, based on real case studies, are also included. The book attempts to rationalize the entire procedure of this poly-parametric decision-making, keeping however in mind the need for practical engineering solutions."

Process-control Systems Nov 09 2020

Design and Application of Biomedical Circuits and Systems Nov 29 2019 This Special Issue is a collection of

twelve papers on the design and application of biomedical circuits and systems. We hope you enjoy reading this Special Issue and become inspired to address technological challenges toward helping the medical industry and biologists to increase the quality of life for humans, which is the main objective. Several topics have been highlighted: muscle electrostimulation, analog front-end (AFE) circuits, waveform generators, real-time velocimetry estimators, interference suppression, bio-signal encryption, IoT electronic nose, ultrasound image processing, noise in medical imaging, elbow actuators, and aids for visually impaired people. We are conscious about the very wide scope of biomedical circuits and systems applications, and that our contribution represents only a grain of sand, though we expect to be useful in contributing to the progress of knowledge in the field.

 Designing Data-Intensive Applications Nov 02 2022 Data is at the center of many challenges in system design today. Difficult issues need to be figured out, such as scalability, consistency, reliability, efficiency, and maintainability. In addition, we have an overwhelming variety of tools, including relational databases, NoSQL datastores, stream or batch processors, and message brokers. What are the right choices for your application? How do you make sense of all these buzzwords? In this practical and comprehensive guide, author Martin Kleppmann helps you navigate this diverse landscape by examining the pros and cons of various technologies for processing and storing data. Software keeps changing, but the fundamental principles remain the same. With this book, software engineers and architects will learn how to apply those ideas in practice, and how to make full use of data in modern applications. Peer under the hood of the systems you already use, and learn how to use and operate them more effectively Make informed decisions by identifying the strengths and weaknesses of different tools Navigate the trade-offs around consistency, scalability, fault tolerance, and complexity Understand the distributed systems research upon which modern databases are built Peek behind the scenes of major online services, and learn from their architectures

Process Design Manual for Land Application of Municipal Sludge Oct 28 2019