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Software Configuration Management Patterns Sep 20 2021 This volume examines proven software configuration management strategies that allow professionals to deliver quality software systems with the least amount of wasted effort. It is designed to help managers foster a development environment focused on producing optimal teamwork.

A Methodology for Client/server and Web Application Development Dec 24 2021 Bring discipline and power to all your Web & C/S projects! Roger Fournier's. A Methodology for Client/Server and Web Application Development shows you how to impose needed discipline on even the most complex Web and client/server development projects. Fournier's start-to-finish methodology walks step through every phase: survey, analysis, design, construction, implementation and beyond. Master powerful techniques for finished software faster, including iterative/incremental development, prototyping, timeboxing and joint facilitated user sessions extensive examples, checklists and worksheets, Fournier demonstrates how to: Build an enterprise architecture with true scalability flexibility. Leverage object-oriented programming techniques to the fullest. Establish an effective testing process. Promote re DCOM/ActiveX (TM), CORBA, and JavaBeans (TM) components. Implement technology infrastructures that support Web and C development. Discover specific ways to mitigate the risks that lead so many Web and client/server projects to fail. Learn how communication with users, design databases and Web database access more effectively, plan for user training and data conv much more. There are no silver bullets, but this book's systematic "best practices" approach, tips and techniques will help yo of your Web and client/server development-and deliver business results faster than ever before.

Computer Logic Apr 15 2021 This book provides the reader with the key concepts and techniques of modern digital logic desig applications. This concise treatment provides essential development and explanations for both classical and modern topics. T topics include unicode, unipolar transistors, copper technology, flash memory, HDL, verilog and logic simulation software tool covered are combinatorial logic circuits and transistor circuits. It will be an essential resource for computer scientists, logic designers and computer engineers.

Refrigeration Systems and Applications Aug 27 2019 The definitive text/reference for students, researchers and practicing enginee book provides comprehensive coverage on refrigeration systems and applications, ranging from the fundamental principles of thermodynamics to food cooling applications for a wide range of sectoral utilizations. Energy and exergy analyses as well as assessments through energy and exergy efficiencies and energetic and exergetic coefficients of performance are explored, a analysis techniques, models, correlations and procedures are introduced with examples and case studies. There are specific s allocated to environmental impact assessment and sustainable development studies. Also featured are discussions of importa developments in the field, including those stemming from the author's pioneering research. Refrigeration is a uniquely positio disciplinary field encompassing mechanical, chemical, industrial and food engineering, as well as chemistry. Its wide-ranging a mean that the industry plays a key role in national and international economies. And it continues to be an area of active rese it focusing on making the technology as environmentally friendly and sustainable as possible without compromising cost effic effectiveness. This substantially updated and revised edition of the classic text/reference now features two new chapters d renewable-energy-based integrated refrigeration systems and environmental impact/sustainability assessment. All examples a end problems have been updated as have conversion factors and the thermophysical properties of an array of materials. Prov foundation in the fundamental principles and the practical applications of refrigeration technologies Examines fundamental as thermodynamics, refrigerants, as well as energy and exergy analyses and energy and exergy based performance assessment approaches Introduces environmental impact assessment methods and sustainability evaluation of refrigeration systems and Covers basic and advanced (and hence integrated) refrigeration cycles and systems, as well as a range of novel applications crucial industrial, technical and operational problems, as well as new performance improvement techniques and tools for bet

analysis Features clear explanations, numerous chapter-end problems and worked-out examples Refrigeration Systems and
Third Edition is an indispensable working resource for researchers and practitioners in the areas of Refrigeration and Air C
is also an ideal textbook for graduate and senior undergraduate students in mechanical, chemical, biochemical, industrial a
engineering disciplines.

Power Electronics, Drives, and Advanced Applications Sep 01 2022 Concern for reliable power supply and energy-efficient system
has led to usage of power electronics-based systems, including efficient electric power conversion and power semicondu
book provides integration of complete fundamental theory, design, simulation and application of power electronics, and dr
to-date subject components. It contains twenty-one chapters arranged in four sections on power semiconductor devices
electronic converters, advanced power electronics converters, power supplies, electrical drives and advanced applications.
undergraduate and graduate students in electrical engineering and power electronics including related professionals, this
electrical drives such as DC motor, AC motor, special motor, high performance motor drives, solar, electrical/hybrid vehicle
drives • Reviews advances in renewable energy technologies (wind, PV, hybrid power systems) and their integration • Expl
distributed generation, microgrid, and wireless power transfer system • Includes simulation examples using MATLAB®/Sim
four hundred solved, unsolved and review problems

Machine Design for Mobile and Industrial Applications Jan 05 2020 An introductory text for students as well as reference for eng
provides the designers of mobile and industrial machines with methods for selecting and designing machine components.
includes homework problems and bibliographic references. A comprehensive appendix section, as well

Official Gazette of the United States Patent Office Jan 25 2022

Engineering Education Feb 11 2021

Conference Record, Industry Applications Society, IEEE-IAS Annual Meeting (1982) Jul 31 2021

Software Development, Design and Coding Jun 25 2019 Learn the principles of good software design, and how to turn those pri
into great code. This book introduces you to software engineering — from the application of engineering principles to the
software. You'll see how to run a software development project, examine the different phases of a project, and learn how
implement programs that solve specific problems. It's also about code construction — how to write great programs and r
Whether you're new to programming or have written hundreds of applications, in this book you'll re-examine what you alr
you'll investigate ways to improve. Using the Java language, you'll look deeply into coding standards, debugging, unit testir
and other characteristics of good programs. With Software Development, Design and Coding, author and professor John D
his years of teaching and development experience to demonstrate practical techniques for great coding. What You'll Learn
agile methodologies including Scrum and Lean programming Leverage the capabilities of modern computer systems with p
programming Work with design patterns to exploit application development best practices Use modern tools for developm
collaboration, and source code controls Who This Book Is For Early career software developers, or upper-level students in
engineering courses

Pro Apache Struts with Ajax Dec 08 2020 In this book, the authors take an application-centric approach: the development of a
application drives the Struts along with Ajax coverage, rather than the other way around. Chapter titles include: What We
Antipatterns Explained; Managing Business Logic with Struts; Architecting the Data Access Tier with ObjectRelationalBridg
Flexible Front-Ends with the Tiles Framework; Dynamic Forms using Ajax and the Struts Validator Framework; Speeding Str
Development with XDoclet, and Logging and Debugging. Appendices discuss JavaEdge setup, Struts development tools, and
Ti/WebWork. The end result: you will learn to use Struts very effectively!

Analog Circuits and Systems Optimization based on Evolutionary Computation Techniques May 17 2021 The microelectronics market,
with special emphasis to the production of complex mixed-signal systems-on-chip (SoC), is driven by three main dynamics
productivity and managing complexity. Pushed by the progress in na- meter technology, the design teams are facing a cur
that grows exponentially, thereby slowing down the productivity design rate. Analog design automation tools are not dev
same pace of technology, once custom design, characterized by decisions taken at each step of the analog design flow, -
time on designer knowledge and expertise. Actually, the use of - sign management platforms, like the Cadences Virtuoso p
set of - tegrated CAD tools and database facilities to deal with the design transformations from the system level to the
implementation, can significantly speed-up the design process and enhance the productivity of analog/mixed-signal integra
design teams. These design management platforms are a valuable help in analog IC design but they are still far behind the
stage of design automation tools already available for digital design. Therefore, the development of new CAD tools and de
methodologies for analog and mixed-signal ICs is ess- tial to increase the designer's productivity and reduce design produ
work presented in this book describes a new design automation approach to the problem of sizing analog ICs.

Design Patterns Java Workbook Jul 07 2020 This workbook approach deepens understanding, builds confidence, and strengthe
skills. It covers all five categories of design pattern intent: interfaces, responsibility, construction, operations, and extensi

Studyguide for Medical Instrumentation Application and Design by Webster, John G., ISBN 9780471676003 May 17 2021 Never
HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are i
Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with opt
comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780471676003 .

Medical Instrumentation Mar 27 2022 Provides a comprehensive overview of the basic concepts behind the application and c
medical instrumentation This premiere reference on medical instrumentation describes the principles, applications, and des
medical instrumentation most commonly used in hospitals. It places great emphasis on design principles so that scientists
background in electronics can gain enough information to design instruments that may not be commercially available. The
includes new material on microcontroller-based medical instrumentation with relevant code, device design with circuit sim

implementations, dry electrodes for electrocardiography, sleep apnea monitor, Infusion pump system, medical imaging tech
electrical safety. Each chapter includes new problems and updated reference material that covers the latest medical tech
Instrumentation: Application and Design, Fifth Edition covers general concepts that are applicable to all instrumentation sy
including the static and dynamic characteristics of a system, the engineering design process, the commercial development
classifications, and the electrical safety, protection, codes and standards for medical devices. The readers learn about the
various sensor mechanisms, the necessary amplifier and filter designs for analog signal processing, and the digital data ac
processing, storage and display using microcontrollers. The measurements of both cardiovascular dynamics and respirator
discussed, as is the developing field of biosensors. The book also covers general concepts of clinical laboratory instrumen
imaging, various therapeutic and prosthetic devices, and more. Emphasizes design throughout so scientists and engineers
medical instruments Updates the coverage of modern sensor signal processing New material added to the chapter on mo
microcontroller use Features revised chapters, descriptions, and references throughout Includes many new worked out ex
supports student problem-solving Offers updated, new, and expanded materials on a companion webpage Supplemented w
manual containing complete solutions to all problems Medical Instrumentation: Application and Design, Fifth Edition is an e
for a senior to graduate-level course in biomedical engineering and will benefit other health professionals involved with th

The Power Electronics Handbook May 29 2022 Less expensive, lighter, and smaller than its electromechanical counterparts, po
electronics lie at the very heart of controlling and converting electric energy, which in turn lies at the heart of making th
From household appliances to space-faring vehicles, the applications of power electronics are virtually limitless. Until now
same could not be said for access to up-to-date reference books devoted to power electronics. Written by engineers for
Power Electronics Handbook covers the full range of relevant topics, from basic principles to cutting-edge applications. C
contributions by an international panel of experts and full of illustrations, this is not a theoretical tome, but a practical an
presentation of the usefulness and variety of technologies that encompass the field. For modern and emerging application
electronic devices and systems must be small, efficient, lightweight, controllable, reliable, and economical. The Power Elec
Handbook is your key to understanding those devices, incorporating them into controllable circuits, and implementing thos
applications from virtually every area of electrical engineering.

Medical Instrumentation Oct 02 2022 This book provides biomedical engineers with the premiere reference on medical instru
well as a comprehensive overview of the basic concepts. The revised edition features new material on infant apnea monit
pneumography, the design of cardiac pacemakers, and disposable defibrillator electrodes and their standards. Each chapte
problems and updated reference material that cover the latest medical technologies. The chapters have also been revised
in medical imaging, providing biomedical engineers with the most current techniques in the field.

Foundations and Frontiers in Computer, Communication and Electrical Engineering Dec 29 2019 The 3rd International Conference on
Foundations and Frontiers in Computer, Communication and Electrical Engineering is a notable event which brings togethe
researchers, engineers and students in the fields of Electronics and Communication, Computer and Electrical Engineering r
conference a perfect platform to share experience, f

Beginning SOLID Principles and Design Patterns for ASP.NET Developers Jul 19 2021 This book teaches you all the essential knowled
required to learn and apply time-proven SOLID principles of object-oriented design and important design patterns in ASP.N
(formerly ASP.NET 5) applications. You will learn to write server-side as well as client-side code that makes use of proven
patterns. SOLID is an acronym popularized by Robert Martin used to describe five basic principles of good object-oriented
Responsibility, Open/Closed, Liskov Substitution, Interface Segregation and Dependency Inversion. This book covers all five
illustrates how they can be used in ASP.NET Core 1.0 applications. Design Patterns are time proven solutions to commonly
software design problems. The most well-known catalog of design patterns comes from Erich Gamma, Richard Helm, Ralph
John Vlissides, the so-called as GoF patterns (Gang of Four patterns). This book contains detailed descriptions of how to
Structural and Behavioral GoF design patterns along with some Patterns of Enterprise Application Architecture. Popular Ja
patterns are covered, along with working examples of all these patterns in ASP.NET Core 1.0 and C# are included. What Yo
How to apply SOLID principles to ASP.NET applications How to use Gang of Four (GoF) design patterns in ASP.NET applicat
Techniques for applying Patterns of Enterprise Application Architecture cataloged by Martin Fowler in ASP.NET application
organize code and apply design patterns in JavaScript Who This Book Is For:This book is for ASP.NET developers familiar w
Core 1.0, C# and Visual Studio.

Advanced Vibration Analysis Jun 29 2022 Delineating a comprehensive theory, Advanced Vibration Analysis provides the bedro
building a general mathematical framework for the analysis of a model of a physical system undergoing vibration. The boo
the physics of a problem is used to develop a more specific framework for the analysis of that problem. The author elucid
theory applicable to both discrete and continuous systems and includes proofs of important results, especially proofs tha
instructive for a thorough understanding of the result. The book begins with a discussion of the physics of dynamic syste
particles, rigid bodies, and deformable bodies and the physics and mathematics for the analysis of a system with a single-
freedom. It develops mathematical models using energy methods and presents the mathematical foundation for the frame
illustrates the development and analysis of linear operators used in various problems and the formulation of the different
governing the response of a conservative linear system in terms of self-adjoint linear operators, the inertia operator, and
operator. The author focuses on the free response of linear conservative systems and the free response of non-self-adjoi
explores three method for determining the forced response and approximate methods of solution for continuous systems
mathematical foundation and the application of the physics to build a framework for the modeling and development of th
emphasized throughout the book. The presence of the framework becomes more important as the complexity of the syst
text builds the foundation, formalizes it, and uses it in a consistent fashion including application to contemporary researc

vibrations.

Annual Report of the National Advisory Committee for Aeronautics Jan 01 2020 Includes the Committee's Reports no. 1-1058, reprint... v. 1-37.

Introduction to Graphic Design Methodologies and Processes Mar 15 2021 A concise, visually based introduction to graphic designmethodologies Graphic design has emerged as a discipline complete with a bodyof scholarly literature devoted to its theory.Introduction to Graphic Design Methodologies and Processescontributes to this expanding discourse by illustrating... qualitative and quantitative methodologies in guiding conceptualdevelopment in ways beyond those based on taste, style,... preference. Introduction to Graphic DesignMethodologies and Processes: Introduces a range of practical methodologies pe... theinterpreting, targeting, and creating of forms and messages Furthers the ability of designers by showing them how to... collaboratively, and strategically, and as a result,helps them move from form-makers to cultural participants—atransforma... design professionals Includes case studies with questions and answers contributed bya diverse group, including Second S... Sender As professional designers play more strategic roles, the needfor material on design methodologies is growing. This... based introduction to the topic is the designer'sdefinitive resource for defining their purpose, and producing workthat is... appropriate, responsible—and inspiring.

Energy Conservation in Residential, Commercial, and Industrial Facilities Apr 27 2022 An authoritative and comprehensive guide to... managing energy conservation in infrastructures Energy Conservation in Residential, Commercial, and Industrial Facilities o... essential guide to the business models and engineering design frameworks for the implementation of energy conservation... The presented models of both physical and technological systems can be applied to a wide range of structures such as h... facilities, industrial facilities, transportation, and water/energy supply systems. The authors—noted experts in the field—e... performance indicators that are used to evaluate energy conservation strategies and the energy supply scenarios as part... operation of energy systems in infrastructures. The text is based on a systems approach that demonstrates the effective... building energy knowledge and supports the simulation, evaluation, and optimization of several building energy conservatio... addition, the authors explore new methods of developing energy semantic network (ESN) superstructures, energy conserv... techniques, and risk-based life cycle assessments. This important text: Defines the most effective ways to model the infr... physical and technological systems Includes information on the most widely used techniques in the validation and calibrat... energy simulation Offers a discussion of the sources, quantification, and reduction of uncertainty Presents a number of e... conservation strategies in infrastructure systems, including HVAC, lighting, appliances, transportation, and industrial facilit... illustrative case studies to demonstrate the proposed energy conservation framework, practices, methods, engineering de... technologies Written for students studying energy conservation as well as engineers designing the next generation of bu... Conservation in Residential, Commercial, and Industrial Facilities offers a wide-ranging guide to the effective management... conservation in infrastructures.

High Pressure Technology, Fracture Mechanics, and Service Experience in Operating Power Plants Oct 22 2021

Digital Design for Print and Web Nov 22 2021 The all-inclusive guide—from theory to practice—for print and Web design Any w... conceived print or Web design features the dynamic interplay between visual artistry and technical skill. It becomes impor... for the designer to cultivate an aesthetic eye as well as develop a high degree of computer savvy. By combining basic the... technique, Digital Design for Print and Web takes the unique approach of uniting two subjects traditionally approached se... one complete volume. As a result, you will gain a clearer understanding of the entire creative process, from project manag... working with graphics to designing for print and, ultimately, the Web. In this book, you'll find: Full-color text and illustrate... instruction supported by more than 75 video tutorials Coverage of professional software including the Adobe Creative Su... of inspirational images from well-known designers Online full-length project assignments from entry level to advanced An... for design students or practitioners, Digital Design for Print and Web will show you to how to create more effectively an... path toward digital design mastery.

Digital Logic Applications And Design Nov 03 2022

Rare-Earth-Doped Fiber Lasers and Amplifiers, Revised and Expanded Jun 27 2019 Rare-Earth-Doped Fiber Lasers and Amplifiers, Second Edition discusses the essential principles, operating characteristics, and current technology of the main fiber laser... devices based on rare-earth-doped silica and fluorozirconate fibers. Covering all aspects of this revolutionary technology,... reviews fiber fabrication methods and the basic spectroscopic properties of rare-earth ions in glasses, concentrates on t... fiber laser sources, examines several advances in fiber amplifiers, and analyzes new findings and improvements in single-fr... operation, frequency tenability, broadband fiber sources, and blue-green and far-infrared fiber lasers.

High Temperature Electronics Jan 13 2021 The development of electronics that can operate at high temperatures has been id... critical technology for the next century. Increasingly, engineers will be called upon to design avionics, automotive, and geo... electronic systems requiring components and packaging reliable to 200 °C and beyond. Until now, however, they have had... resource on high temperature electronics to assist them. Such a resource is critically needed, since the design and manuf... electronic components have now made it possible to design electronic systems that will operate reliably above the traditi... limit of 125 °C. However, successful system development efforts hinge on a firm understanding of the fundamentals of s... physics and device processing, materials selection, package design, and thermal management, together with a knowledge... application environments. High Temperature Electronics brings together this essential information and presents it for the... unified way. Packaging and device engineers and technologists will find this book required reading for its coverage of the... tradeoffs involved in materials selection, design, and thermal management and for its presentation of best design practice... fielded systems as examples. In addition, professors and students will find this book suitable for graduate-level courses b... detailed level of explanation and its coverage of fundamental scientific concepts. Experts from the field of high temperatu

have contributed to nine chapters covering topics ranging from semiconductor device selection to testing and final assem

 Product Design and Manufactur Nov 10 2020 Basic yet comprehensive in approach, this book introduces readers interested i
engineering, technology, and design to the methods and theory of concurrent or simultaneous design (i.e., design for man
where all aspects of product design and manufacturing are involved, from the outset of the planning effort as a totality.
range of methods for general product design and considers the significant issues that must be addressed early in the de
book examines historical antecedents, information, and data on product design theory and procedures. It considers compu
in design and manufacturing and explores human factors (ergonomics) in design, and their applications to products and to
discusses physical materials used in the design of quality products, and the methods employed to process these material
special applications to graphics design and packaging and surveys the history of the functional, material and visual require
product design, and the methods used in industrial, engineering, and crafts design. Also explained are the legal aspects of
relative to protecting the rights to intellectual property, and the issues of product liability.

 Soft-Switching Technology for Three-phase Power Electronic Feb 23 2023 Soft-Switching Technology for Three-phase Pow
Electronics Converters Discover foundational and advanced topics in soft-switching technology, including ZVS three-phase
Soft-Switching Technology for Three-phase Power Electronics Converters, an expert team of researchers delivers a compr
exploration of soft-switching three-phase converters for applications including renewable energy and distribution power s
power sources, UPS, motor drives, battery chargers, and more. The authors begin with an introduction to the fundamenta
technology, providing the basic knowledge necessary for readers to understand the following articles. The book goes on t
phase rectifiers and three-phase grid inverters. It offers prototypes and experiments of each type of technology. Finally, t
describe the impact of silicon carbide devices on soft-switching three-phase converters, studying the improvement in effi
density created via the introduction of silicon carbide devices. Throughout, the authors put a special focus on a family of
switching (ZVS) three-phase converters and related pulse width modulation (PWM) schemes. The book also includes: A th
introduction to soft-switching techniques, including the classification of soft-switching for three phase converter topolog
types and a generic soft-switching pulse-width-modulation known as Edge-Aligned PWM A comprehensive exploration of c
switching three-phase converters, including the switching of power semiconductor devices and DC and AC side resonance
discussions of ZVS space vector modulation for three-phase converters, including the three-phase converter commutation
examinations of three-phase rectifiers with compound active clamping circuits Perfect for researchers, scientists, profess
and undergraduate and graduate students studying or working in power electronics, Soft-Switching Technology for Three
Electronics Converters is also a must-read resource for research and development engineers involved with the design and
power electronics.

 Digital Signal Processing Applications Jun 17 2021

 Design Dimensions Nov 30 2019

 Power Electronics Design Handbook Dec 10 2020 Power Electronics Design Handbook covers the basics of power electronics t
components while emphasizing modern low-power components and applications. Coverage includes power semiconductors
power supplies, batteries, protection systems, and power ICs. One of the unique features of the Power Electronics Desig
integration of component and system theory with practical applications, particularly energy-saving low-power applications
also include a section that looks forward to future developments in that area. References for further information or more
reading are also included. Nihal Kularatna is a principal research engineer with the Arthur C. Clarke Foundation in Sri Lanka
the author of Modern Electronic Test and Measuring Instruments, published by the Institute of Electrical Engineers. Emph
medium-power components Offers a unique mix of theory and practical application Provides a useful guide to further read

 Object-oriented Analysis and Design with Application Dec 12 2020 This text provides a technical introduction to the field of Obj
oriented programming. It is aimed at programmers who are familiar with the concepts of programming and design.

 Modeling and Optimization of Parallel and Distributed Embedded Syst Jan 31 2020 This book introduces the state-of-the-art in
research in parallel and distributed embedded systems, which have been enabled by developments in silicon technology, m
mechanical systems (MEMS), wireless communications, computer networking, and digital electronics. These systems have
applications in domains including military and defense, medical, automotive, and unmanned autonomous vehicles. The emph
book is on the modeling and optimization of emerging parallel and distributed embedded systems in relation to the three l
of performance, power and dependability. Key features: Includes an embedded wireless sensor networks case study to he
modeling and optimization of distributed embedded systems. Provides an analysis of multi-core/many-core based embedde
explain the modeling and optimization of parallel embedded systems. Features an application metrics estimation model; Ma
for fault tolerance and analysis; and queueing theoretic modeling for performance evaluation. Discusses optimization appro
distributed wireless sensor networks; high-performance and energy-efficient techniques at the architecture, middleware a
for parallel multicore-based embedded systems; and dynamic optimization methodologies. Highlights research challenges a
research directions. The book is primarily aimed at researchers in embedded systems; however, it will also serve as an inv
reference to senior undergraduate and graduate students with an interest in embedded systems research.

 Designing the Mobile User Experience Sep 28 2019 Gain the knowledge and tools to deliver compelling mobile phone applicatio
Mobile and wireless application design is complex and challenging. Selecting an application technology and designing a mo
application require an understanding of the benefits, costs, context, and restrictions of the development company, end us
and industry structure. Designing the Mobile User Experience provides the experienced product development professional
understanding of the users, technologies, devices, design principles, techniques and industry players unique to the mobile
space. Barbara Ballard describes the different components affecting the user experience and principles applicable to the m
environment, enabling the reader to choose effective technologies, platforms, and devices, plan appropriate application fe

pervasive design patterns, and choose and apply appropriate research techniques. Designing the Mobile User Experience: F comprehensive guide to the mobile user experience, offering guidance to help make appropriate product development and Gives product development professionals the tools necessary to understand development in the mobile environment. Clarif components affecting the user experience and principles uniquely applicable to the mobile application field. Explores indust and power dynamics, providing insight into how mobile technologies and platforms become available on current and future Provides user interface design patterns, design resources, and user research methods for mobile user interface design. Illu with example photographs, explanatory tables and charts, and an example application. Designing the Mobile User Experienc invaluable resource for information architects, user experience planners and designers, interaction designers, human facto ergonomists, product marketing specialists, and brand managers. Managers and directors within organizations entering th advanced students, partnership managers, software architects, solution architects, development managers, graphic design designers, and interface designers will also find this to be an excellent guide to the topic.

Relational Database Index Design and the Optimizers Mar 08 2020 Improve the performance of relational databases with indexes designed for today's hardware Over the last few years, hardware and software have advanced beyond all recognition, so surprising that relational database performance now receives much less attention. Unfortunately, the reality is that the in hasn't kept pace with the ever-increasing quantity of data processed today. Although disk packing densities have increase making storage costs extremely low and sequential read very fast, random reads are still painfully slow. Many of the old recommendations are therefore no longer valid-the optimal point of indexing has come a long way. Consequently many of haven't actually gone away-they have simply changed their appearance. This book provides an easy but effective approach indexes and tables. Using lots of examples and case studies, the authors describe how the DB2, Oracle, and SQL Server o determine how to access data, and how CPU and response times for the resulting access paths can be quickly estimated comparisons to be made of the various designs, and helps you choose available choices for the most appropriate design. T intended for anyone who wants to understand the issues of SQL performance or how to design tables and indexes effect readers with many years of experience of relational systems will be able to better grasp the implications that have been by the introduction of new hardware.