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*Software Design* Apr 26 2021 *Software Design: Creating Solutions for Ill-Structured Problems*, Third Edition provides a balanced view of the many and varied software design practices used by practitioners.

The book provides a general overview of software design within the context of software development and as a means of addressing ill-structured problems. The third edition has been expanded and reorganised to focus on the structure and process aspects of software design, including architectural issues, as well as design notations and models. It also describes a variety of different ways of creating design solutions such as plan-driven development, agile approaches, patterns, product lines, and other forms. Features

- Includes an overview and review of representation forms used for modelling design solutions
- Provides a concise review of design practices and how these relate to ideas about software architecture
- Uses an evidence-informed basis for discussing design concepts and when their use is appropriate

This book is suitable for undergraduate and graduate students taking courses on software engineering and software design, as well as for software engineers. Author David Budgen is a professor emeritus of software engineering at Durham University. His research interests include evidence-based software engineering (EBSE), software design, and healthcare informatics.

*Introduction to Finite Element Analysis and Design* Feb 02 2022 Introduces the basic concepts of FEM in an easy-to-use format so that students and professionals can use the method efficiently and interpret results properly Finite element method (FEM) is a powerful tool for solving engineering problems both in solid structural mechanics and fluid mechanics. This book presents all of the theoretical aspects of FEM that students of engineering will need. It eliminates overlong math equations in favour of basic concepts, and reviews of the mathematics and mechanics of materials in order to illustrate the concepts of FEM. It introduces these concepts by including examples using six different commercial programs online. The all-new, second edition of *Introduction to Finite Element Analysis and Design* provides many more exercise problems than the first edition. It includes a significant amount of material in modelling issues by using several practical examples from engineering applications. The book features new coverage of buckling of beams and frames and extends heat transfer analyses from 1D (in the previous edition) to 2D. It also covers 3D solid element and its application, as well as 2D. Additionally, readers will find an increase in

coverage of finite element analysis of dynamic problems. There is also a companion website with examples that are concurrent with the most recent version of the commercial programs. Offers elaborate explanations of basic finite element procedures Delivers clear explanations of the capabilities and limitations of finite element analysis Includes application examples and tutorials for commercial finite element software, such as MATLAB, ANSYS, ABAQUS and NASTRAN Provides numerous examples and exercise problems Comes with a complete solution manual and results of several engineering design projects Introduction to Finite Element Analysis and Design, 2nd Edition is an excellent text for junior and senior level undergraduate students and beginning graduate students in mechanical, civil, aerospace, biomedical engineering, industrial engineering and engineering mechanics.

**Design Solutions for Adaptive Hypermedia Listening Software** May 20 2023 Adaptive hypermedia listening software enables materials writers to combine and deliver a wide range of digital elements on the same digital computer platform more efficiently. Such a combination and delivery provides a multidimensional, multi-sensory digital environment in which rich, efficient, instant, comprehensible, optimum, and meaningful input and feedback can be presented effectively and efficiently. Moreover, language learners' attention can be drawn to forms and meanings in input. Such aspects correspond with different theories and hypotheses of language learning and teaching. This presents users/learners with an environment that is easy to use, tension-free, and optimal during self-study. However, to be able to design and develop cost effective and professional adaptive hypermedia listening software, there are certain scientific educational findings and implications that need to be implemented at every single stage. To have access to such vital findings is not so easy, and research must address this area. Design Solutions for Adaptive Hypermedia Listening Software explores how to design and create technically and pedagogically sound and efficient interactive adaptive hypermedia listening software for language learners in any language. The chapters will cover learner strategy tools, the effectiveness of this technology, best practices in adaptive hypermedia listening software, and the benefits and challenges of

this technology for language learning. It is ideal for companies, institutions, teachers, policymakers, academicians, researchers, advanced-level students, technology developers, and decision-making pertinent government officials interested in designing and developing multimedia listening environments for language learners.

**Universal Design** Sep 11 2022 The future is looking old. We are currently at the threshold of the largest demographic transformation of modern times, the advent of the age of the senior citizen. What awaits us – what kinds of products, what kinds of houses? The fifty-and-over generation represents an enormous potential: in Germany alone, twenty million seniors have hundreds of billions of euros, but they hardly spend them for lack of suitable products. This book provides answers from a sociological and design perspective for architects, designers, decision-makers, and firms who wish to respond to the demands of this diverse and discriminating target group. It investigates the various aspects of senior citizens' lives from tip to toe and offers technical articles as well as authentic case studies and reports. Attractively laid out, fully illustrated, and with pointedly written texts, it is also aimed at the silver agers themselves, especially those who would like to find out what architecture and design can do to make their lives as pleasant and independent as possible.

Designing Solutions for Your Business Problems Jan 28 2024 Designing Solutions for Your Business Problems is an essential resource for managers and consultants who help organizations resolve ambiguous problems and develop new opportunities. Taking a hands-on, practical approach, Betty Vandebosch—a leading management consultant and educator—outlines the details on how to conduct a proven process for designing solutions. Designing Solutions for Your Business Problems will teach you how to curtail investigation and generate and justify ideas without sacrificing thoroughness, creativity, persuasiveness, and fit. You will be able to capitalize on more opportunities, and your problem-solving skills will become more efficient and your solutions more compelling. This book will help you design better solutions and design them faster. Betty Vandebosch offers a variety of useful techniques such as the

"scoping diagram," which provides a framework for action, and the "logic diagram," which tests the validity of a potential solution. In addition, the book contains illustrative real-life examples of the Designing Solutions approach from a variety of organizations.

**Service Design Patterns** Jul 22 2023 "Forewords by Martin Fowler and Ian Robinson"--From front cover.

**Practical Design** Dec 03 2021 This volume brings together the most successful cabinetmakers to bring to bear their many combined years of experience, offering advice, new approaches, solutions and strategies for making a full range of furniture types and styles.

*Accessible XHTML and CSS Web Sites* Nov 01 2021 Shows Web developers how to make the transition from HTML to XHTML, an XML-based reformulation of HTML that offers greater design flexibility Demonstrates how to work with CSS (Cascading Style Sheets)-now supported by ninety percent of browsers and integral to new site-building tools from Macromedia and others-and implement a consistent style throughout and entire site Explains how to make a site accessible to people with impaired vision, limited hand use, dyslexia, and other issues-now a legal requirement for many sites in the U.S. and the U.K.

*Leading by Design* Aug 30 2021 By focusing on what students learn rather than what they are taught, schools can redefine their mission and begin the transition to a professional learning community. After interviewing and observing principals, administrators, and teachers, the authors identify seven leadership practices that effective PLC leaders share, along with the techniques that have led them to sustainable success.

**Programming Logic and Design** Jul 30 2021 Programming Logic and Design, Comprehensive, Third Edition provides the beginning programmer with a guide to developing structured program logic. This textbook assumes no programming experience and does not focus on any one particular language. It introduces programming concepts and enforces good style and logical thinking. New elements found in this edition include a complete program example in each chapter; key terms and 20 review questions at

the end of every chapter; more thorough coverage of modularization, object-oriented concepts, and event handling; earlier coverage of style and design issues; and a new appendix on numbering systems.

**Graphic Design Solutions** Mar 30 2024 Cutting-edge concepts, a beautifully illustrated text, and a dazzling array of award-winning design make the third edition of this standout best-seller one of the most highly acclaimed design texts in the world. *Graphic Design Solutions* continues to provide a clear and comprehensive introduction to graphic design and advertising design, with step-by-step visual solutions that readers can apply with confidence to their own design and advertising projects. A highly illustrative, straightforward assessment of developing winning graphic design solutions for a variety of media—including print, Web, television, and unconventional formats—helps designers think critically and creatively about their work while understanding the demands of the graphic design profession in today's world.

The UX Book Aug 23 2023 The discipline of user experience (UX) design has matured into a confident practice and this edition reflects, and in some areas accelerates, that evolution. Technically this is the second edition of *The UX Book*, but so much of it is new, it is more like a sequel. One of the major positive trends in UX is the continued emphasis on design—a kind of design that highlights the designer's creative skills and insights and embodies a synthesis of technology with usability, usefulness, aesthetics, and meaningfulness to the user. In this edition a new conceptual top-down design framework is introduced to help readers with this evolution. This entire edition is oriented toward an agile UX lifecycle process, explained in the funnel model of agile UX, as a better match to the now de facto standard agile approach to software engineering. To reflect these trends, even the subtitle of the book is changed to “Agile UX design for a quality user experience . Designed as a how-to-do-it handbook and field guide for UX professionals and a textbook for aspiring students, the book is accompanied by in-class exercises and team projects. The approach is practical rather than formal or theoretical. The primary goal is still to imbue an understanding of what a good user experience is and how to achieve it. To better serve this, processes, methods, and techniques are introduced early to establish process-related concepts as

context for discussion in later chapters. Winner of a 2020 Textbook Excellence Award (College) (Texty) from the Textbook and Academic Authors Association A comprehensive textbook for UX/HCI/Interaction Design students readymade for the classroom, complete with instructors' manual, dedicated web site, sample syllabus, examples, exercises, and lecture slides Features HCI theory, process, practice, and a host of real world stories and contributions from industry luminaries to prepare students for working in the field The only HCI textbook to cover agile methodology, design approaches, and a full, modern suite of classroom material (stemming from tried and tested classroom use by the authors)

**Visual Language for Designers** Jan 21 2021 Within every picture is a hidden language that conveys a message, whether it is intended or not. This language is based on the ways people perceive and process visual information. By understanding visual language as the interface between a graphic and a viewer, designers and illustrators can learn to inform with accuracy and power. In a time of unprecedented competition for audience attention and with an increasing demand for complex graphics, Visual Language for Designers explains how to achieve quick and effective communications. New in paperback, this book presents ways to design for the strengths of our innate mental capacities and to compensate for our cognitive limitations. Visual Language for Designers includes: —How to organize graphics for quick perception —How to direct the eyes to essential information —How to use visual shorthand for efficient communication —How to make abstract ideas concrete —How to best express visual complexity —How to charge a graphic with energy and emotion

**Egress Design Solutions** Jul 10 2022 The architect's primary source for information on designing for egress, evacuation, and life safety, Egress Design Solutions, Emergency Evacuation and Crowd Management Planning, is written by proven experts on egress issues. Meacham and Tubbs are engineers with Arup, an international firm with a stellar reputation for quality design and engineering. Their book examines egress solutions in terms of both prescriptive and performance-based code issues. A portion of the book focuses on techniques for providing egress design solutions and for coordinating egress

systems with other critical life safety systems. Another part reviews historic and recent tragic life-loss fire events. As such, this is easily the most comprehensive take on the subject, written especially for architects.

*Design in Five* Aug 11 2022 Fully engage learners in your classroom. Discover how to create high-quality assessments using a five-phase design protocol. Explore types and traits of quality assessment, and learn how to develop assessments that are innovative, effective, and engaging. Evaluate whether your current assessments meet the design criteria, and discover how to use this process collaboratively with your team.

Transportation Engineering Jan 04 2022

Artificial Intelligence Design and Solution for Risk and Security Feb 14 2023 Artificial Intelligence (AI) Design and Solutions for Risk and Security targets readers to understand, learn, define problems, and architect AI projects. Starting from current business architectures and business processes to futuristic architectures. Introduction to data analytics and life cycle includes data discovery, data preparation, data processing steps, model building, and operationalization are explained in detail. The authors examine the AI and ML algorithms in detail, which enables the readers to choose appropriate algorithms during designing solutions. Functional domains and industrial domains are also explained in detail. The takeaways are learning and applying designs and solutions to AI projects with risk and security implementation and knowledge about futuristic AI in five to ten years.

**.NET Domain-Driven Design with C#** Mar 25 2021 As the first technical book of its kind, this unique resource walks you through the process of building a real-world application using Domain-Driven Design implemented in C#. Based on a real application for an existing company, each chapter is broken down into specific modules so that you can identify the problem, decide what solution will provide the best results, and then execute that design to solve the problem. With each chapter, you'll build a complete project from beginning to end.



**Universal Methods of Design** Nov 13 2022 "Universal Methods of Design is an immensely useful survey of research and design methods used by today's top practitioners, and will serve as a crucial reference for any designer grappling with really big problems. This book has a place on every designer's bookshelf, including yours!" —David Sherwin, Principal Designer at frog and author of Creative Workshop: 80 Challenges to Sharpen Your Design Skills "Universal Methods of Design is a landmark method book for the field of design. This tidy text compiles and summarizes 100 of the most widely applicable and effective methods of design—research, analysis, and ideation—the methods that every graduate of a design program should know, and every professional designer should employ. Methods are concisely presented, accompanied by information about the origin of the technique, key research supporting the method, and visual examples. Want to know about Card Sorting, or the Elito Method? What about Think-Aloud Protocols? This book has them all and more in readily digestible form. The authors have taken away our excuse for not using the right method for the job, and in so doing have elevated its readers and the field of design. UMOD is an essential resource for designers of all levels and specializations, and should be one of the go-to reference tools found in every designer's toolbox." —William Lidwell, author of Universal Principles of Design, Lecturer of Industrial Design, University of Houston This comprehensive reference provides a thorough and critical presentation of 100 research methods, synthesis/analysis techniques, and research deliverables for human centered design, delivered in a concise and accessible format perfect for designers, educators, and students. Whether research is already an integral part of a practice or curriculum, or whether it has been unfortunately avoided due to perceived limitations of time, knowledge, or resources, Universal Methods of Design serves as an invaluable compendium of methods that can be easily referenced and utilized by cross-disciplinary teams in nearly any design project. This essential guide: - Dismantles the myth that user research methods are complicated, expensive, and time-consuming - Creates a shared meaning for cross-disciplinary design teams - Illustrates methods with compelling visualizations and case studies - Characterizes each method at a glance - Indicates when

methods are best employed to help prioritize appropriate design research strategies Universal Methods of Design distills each method down to its most powerful essence, in a format that will help design teams select and implement the most credible research methods best suited to their design culture within the constraints of their projects.

**Design Solutions and Innovations in Temporary Structures** Jun 08 2022 Temporary structures are a vital but often overlooked component in the success of any construction project. With the assistance of modern technology, design and operation procedures in this area have undergone significant enhancements in recent years. Design Solutions and Innovations in Temporary Structures is a comprehensive source of academic research on the latest methods, practices, and analyses for effective and safe temporary structures. Including perspectives on numerous relevant topics, such as safety considerations, quality management, and structural analysis, this book is ideally designed for engineers, professionals, academics, researchers, and practitioners actively involved in the construction industry.

**Technical Design Solutions for Theatre** Oct 25 2023 The Technical Brief is a collection of single-focus articles on technical production solutions, published three times a year by the prestigious Yale School of Drama. The primary objective of the publication is to share creative solutions to technical problems so that fellow theatre technicians can avoid having to reinvent the wheel with each new challenge. The range of topics includes scenery, props, painting, electrics, sound and costumes. The articles each describe an approach, device, or technique that has been tested on stage or in a shop by students and professionals. Some articles included are: Building Authentic Elizabethan Ruffs; Simple and Inexpensive Stained Glass; A Quick-Load Floor Pulley Design; A Simple Approach to Stretching Drops; Flexi-Pitch Escape Stairs; Spot-Welding Scrim with Sobo; Handrail Armatures for a Grand Staircase; The Triscuit-Studwall Deck System; A Frameless Turntable; Stand on Stage: Minimum Weight, Maximum Effect; A Self-Paging Cable Tray; Roller Chain Turntable Drives; A Bench-Built XLR Cable Tester

**Graphic Design Solutions** Dec 27 2023 Graphic Design Solutions is the most comprehensive, how-to

reference on graphic design and typography. Covering print and interactive media, this book examines conceiving, visualizing and composing solutions to design problems, such as branding, logos, web design, posters, book covers, advertising, and more. Excellent illustrations of historical, modern and contemporary design are integrated throughout. The Fifth Edition includes expanded and updated coverage of screen media, including mobile, tablet, desktop web, and motion as well as new interviews, showcases, and case studies; new diagrams and illustrations; a broader investigation of creativity and concept generation; visualization and color; and an updated timeline. Accompanying this edition, CourseMate with eBook brings concepts to life with projects, videos of designers in the field, and portfolio-building tools. Additional online-only chapters—Chapters 14 through 16—are available in PDF format on the student and instructor resource sites for this title, accessed via CengageBrain.com; search for this book, then click on the “Free Materials” tab. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

*Out of Water - Design Solutions for Arid Regions* Oct 13 2022 Water scarcity is becoming increasingly familiar to us. Although access to water resources is an issue of global concern, arid climates are where necessity begets inventions that may serve as examples for action or prevention across a multitude of climate zones and geographies. In facing the prevalence of water scarcity across the globe, due to a mix of climatological and man-made factors, the question we must ask ourselves today is Water for What? Which approaches can landscape, urban and architectural designers take in order to apply their specific professional skills and means? What potential do available technologies and materials offer, and what methods and tools can be derived from social engagement? Based on five years of research, the preparation of and feedback on a traveling exhibition, as well as a major conference, the results of the Out of Water project are laid out here in a series of case studies and essays by international experts, including analytical drawings of both projected and implemented solutions.

*Visual Design Solutions* Nov 25 2023 Enhance learners' interest and understanding with visual design for

instructional and information products No matter what medium you use to deliver content, if the visual design fails, the experience falls flat. Meaningful graphics and a compelling visual design supercharge instruction, training, and presentations, but this isn't easy to accomplish. Now you can conquer your design fears and knowledge gaps with *Visual Design Solutions*: a resource for learning professionals seeking to raise the bar on their graphics and visual design skills. This informal and friendly book guides you through the process and principles used by professional graphic designers. It also presents creative solutions and examples that you can start using right away. Anyone who envisions, designs, or creates instructional or informational graphics will benefit from the design strategies laid out in this comprehensive resource. Written by Connie Malamed, an art educator and instructional designer, this book will help you tap into your creativity, design with intention, and produce polished work. Whereas most graphic design books focus on logos, packaging, and brochures, *Visual Design Solutions* focuses on eLearning, presentations, and performance support. *Visual Design Solutions* includes practical guidelines for making smart design choices, ways to create professional-looking products, and principles for successful graphics that facilitate learning. Ideal for instructional designers, trainers, presenters, and professors who want to advance from haphazard to intentional design, this book will help them realize their design potential. Gain the knowledge and confidence to design impressive, effective visuals for learning. Increase learner comprehension and retention with visual strategies offered by an expert author. Serves as a reference and a resource, with a wealth of examples for inspiration and ideas. Addresses an intimidating topic in an informal, friendly style. In four parts, the book provides a thorough overview of the design process and design concepts; explores space, image, and typography; and presents workable solutions for your most persistent and puzzling design problems. Get started and begin creating captivating graphics for your learners.

**From Problem Solving to Solution Design** Feb 27 2024 From Problem Solving To Solution Design  
Creating solutions to solve problems can often prove very difficult to accomplish, even for seasoned

Solution Designers. Complex organizational problems have several stakeholders, endless variables, and a myriad of possible solutions. It's hard enough to figure out where to start, and even harder to realize what the perfect, mutually-beneficial solution is. With their combined tenure of over fifty years, J. Eduardo Campos and Erica W. Campos present their Solution-Designing expertise in *From Problem Solving to Solution Design* so that you can learn from their successes (and their failures) to craft sustainable solutions for complex problems. Specifically, you will learn how to implement the I.D.E.A.S. framework that they have been perfecting over the years, which includes five critical checkpoints that any Solution Designer must hit to create solutions that are successfully envisioned, negotiated with stakeholders, and implemented to last over time.

- IDENTIFY THE ESSENTIAL PROBLEM AND PRIORITIZE YOUR ACTIONS TO SOLVE IT.
- DESIGN SOLUTION OPTIONS ALIGNED TO YOUR GOALS.
- ENGAGE YOUR STAKEHOLDERS IN THE SOLUTION AND INFLUENCE THE DECISION-MAKING PROCESS.
- ACT ON THE AGREED-UPON RECOMMENDATIONS AND EXECUTE YOUR GOVERNANCE MODEL.
- SUSTAIN THE IMPLEMENTED SOLUTION BY CREATING A FEEDBACK LOOP.

Treat this book as your field guide: it offers clear checkpoints for you to assist your organization in designing effective solutions for complex problems.

**Digital Business Analysis** Dec 15 2022 This book frames business analysis in the context of digital technologies. It introduces modern business analysis techniques, including a selection of those in the Business Analysis Body of Knowledge (BABOK) by the International Institute of Business Analysis (IIBA), and exemplifies them by means of digital technologies applied to solve problems or exploit new business opportunities. It also includes in-depth case studies in which business problems and opportunities, drawn from real-world scenarios, are mapped to digital solutions. The work is summarized in seven guiding principles that should be followed by every business analyst. This book is intended mainly for students in business informatics and related areas, and for professionals who want to acquire a solid background for their daily work. It is suitable both for courses and for self-study. Additional teaching materials such as

lecture videos, slides, question bank, exams, and seminar materials are accessible on the companion web-page.

The Lean Design Solution Sep 23 2023 Leaders are now recognizing that product design is the primary driver of success. They are making it their primary target in their quest for delivering customers more value at less cost. Now Bart Huthwaite, founder of the Institute for Lean Design and recognized as America's Lean Design Coach, show you how, step-by-step, to create lean products and services right from the start. He reveals success secrets and a road map for integrating lean design with six sigma design for powerful results

**Digital Principles and Design** Oct 01 2021

**Blog Design Solutions** Apr 30 2024 \* No other blog book gives professional quality information on blog design and development like this one. Others are either "dummies" style books, or are aimed more at understanding the community/theory. \* The Book supports 4 of the most popular blog engines, and shows you how to build your own. \* It's written by a team of well respected community figures

*Engineering Design Graphics* Mar 06 2022 The most accessible and practical roadmap to visualizing engineering projects In the newly revised Third Edition of *Engineering Design Graphics: Sketching, Modeling, and Visualization*, renowned engineering graphics expert James Leake delivers an intuitive and accessible guide to bringing engineering concepts and projects to visual life. Including updated coverage of everything from freehand sketching to solid modeling in CAD, the author comprehensively discusses the tools and skills you'll need to sketch, draw, model, document, design, manufacture, or simulate a project.

Solution Design to Win Jun 28 2021

Practical Design Solutions and Strategies Jun 01 2024 The sixth in a series of essential resources for today's woodcrafters, this latest volume includes over 20 chapters covering every aspect of furniture making, from designing new projects to building each piece to last more than a lifetime, along with specific

options for tables, cabinets, and chairs.

Graphic Design Process Mar 18 2023 The process of creating graphic design cannot be easily defined: each designer has their own way of seeing the world and approaching their work. Graphic Design Process features a series of in-depth case studies exploring a range of both universal and unique design methods. Chapters investigate typical creative strategies – Research, Inspiration, Drawing, Narrative, Abstraction, Development and Collaboration – examining the work of 23 graphic designers from around the world. Work featured includes projects by Philippe Apeloig, Michael Bierut, Ed Fella, James Goggin, Anette Lenz, Johnson Banks, Me Company, Graphic Thought Facility, Ahn Sang-Soo and Ralph Schraivogel. This book is aimed at students and educators, as well as practising designers interested in the working methodologies of their peers.

HomeWork Jun 20 2023 Innovative design solutions for incorporating workspaces into the home Growing numbers of us work not only from home, but from anywhere; job flexibility has become key for employers and workers alike. This, in turn, has created new challenges for architects and designers—many of whom are themselves working from home—who are creating innovative solutions that allow clients to transform their spaces for a wide range of needs, from multifunctional studios to homes that seamlessly combine work and family life. Divided into five thematic sections, Home Work explores the exciting variety of ways that the workplace can be integrated into the domestic environment without overwhelming it. From stand-alone multifunctional furniture to mobile room dividers and dynamic solutions that fold out or pop up to create new work areas, each design addresses the unique needs of the space and client, and tackles the challenges of the rapidly evolving relationship between work and domestic life in the twenty-first century. This essential and timely resource both for telecommuters and designers redefining “workspace” offers fresh ideas for how to strike the perfect balance between living and working at home.

.NET Domain-Driven Design with C# Apr 06 2022 As the first technical book of its kind, this unique resource walks you through the process of building a real-world application using Domain-Driven Design

implemented in C#. Based on a real application for an existing company, each chapter is broken down into specific modules so that you can identify the problem, decide what solution will provide the best results, and then execute that design to solve the problem. With each chapter, you'll build a complete project from beginning to end.

**Guidelines for Design Solutions for Process Equipment Failures** May 08 2022 While there is no "perfect" solution or absolute zero risk, engineering design can significantly reduce risk potential in the CPI. In *Guidelines for Design Solutions to Process Equipment Failures*, industry experts offer their broad experience in identifying numerous solutions to the more common process equipment failures including inherent safer/passive, active, and procedural solutions, in decreasing order of robustness and reliability. The book challenges the engineer to identify opportunities for inherent and passive safety features early, and use a risk-based approach to process safety systems specification. The book is organized into three basic sections: 1) a technique for making risk-based design decisions; 2) potential failure scenarios for 10 major processing equipment categories; and 3) two worked examples showing how the techniques can be applied. The equipment categories covered are: vessels, reactors, mass transfer equipment, fluid transfer equipment, solids-fluid separators, solids handling and processing equipment, and piping and piping components. Special Details: Hardcover book plus 3.5" diskette for use in any word processing program with design solutions for use in PHAs.

**Beginning Database Design Solutions** Apr 18 2023 The vast majority of software applications use relational databases that virtually every application developer must work with. This book introduces you to database design, whether you're a DBA or database developer. You'll discover what databases are, their goals, and why proper design is necessary to achieve those goals. Additionally, you'll master how to structure the database so it gives good performance while minimizing the chance for error. You will learn how to decide what should be in a database to meet the application's requirements.

**Graphic Design Essentials** Feb 22 2021 Creating effective, eye-catching designs and layouts is a matter



of both inspiration and practical know-how. This book integrates clear explanations of the concepts behind great design with instruction in the use of the core software packages - Photoshop, Illustrator, and Indesign. It helps beginner learn the essentials of graphic design.

*Industry 4.0 Solutions for Building Design and Construction* May 27 2021 This book provides in-depth results and case studies in innovation from actual work undertaken in collaboration with industry partners in Architecture, Engineering, and Construction (AEC). Scientific advances and innovative technologies in the sector are key to shaping the changes emerging as a result of Industry 4.0. Mainstream Building Information Management (BIM) is seen as a vehicle for addressing issues such as industry fragmentation, value-driven solutions, decision-making, client engagement, and design/process flow; however, advanced simulation, computer vision, Internet of Things (IoT), blockchain, machine learning, deep learning, and linked data all provide immense opportunities for dealing with these challenges and can provide evidenced-based innovative solutions not seen before. These technologies are perceived as the “true” enablers of future practice, but only recently has the AEC sector recognised terms such as “golden key” and “golden thread” as part of BIM processes and workflows. This book builds on the success of a number of initiatives and projects by the authors, which include seminal findings from the literature, research and development, and practice-based solutions produced for industry. It presents these findings through real projects and case studies developed by the authors and reports on how these technologies made a real-world impact. The chapters and cases in the book are developed around these overarching themes: • BIM and AEC Design and Optimisation: Application of Artificial Intelligence in Design • BIM and XR as Advanced Visualisation and Simulation Tools • Design Informatics and Advancements in BIM Authoring • Green Building Assessment: Emerging Design Support Tools • Computer Vision and Image Processing for Expediting Project Management and Operations • Blockchain, Big Data, and IoT for Facilitated Project Management • BIM Strategies and Leveraged Solutions This book is a timely and relevant synthesis of a number of cogent subjects underpinning the paradigm shift needed for the AEC

industry and is essential reading for all involved in the sector. It is particularly suited for use in Masters-level programs in Architecture, Engineering, and Construction.

**Flash Application Design Solutions** Jan 16 2023 \*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

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