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Power System Analysis and Design [Power System Analysis and Design Cost Optimization of Structures](#) [Chemical Engineering Design Power System Analysis and Design Harmony Search Algorithms for Structural Design Optimization](#) **Power System Analysis and Design, SI Edition** **Emerging Trends in Electrical, Communications and Information Technologies** [Chemical Engineering Design HoloLens Blueprints Design Theory and Methodology, DTM '92](#) [SDL '97: Time for Testing](#) **Solutions Manual to Accompany Power System Analysis and Design** [Geotechnical Earthquake Engineering Trends in Communication, Cloud, and Big Data](#) [Design of Water Supply Pipe Networks Refactoring for Software Design Smells](#) **An Introduction to Chemical Engineering Design** [Annual Review of Communications: Volume 59](#) [CO2-Reservoir Oil Miscibility](#) **SOA Design Patterns** [Systems Thinking for Management Consultants Handbook of Research on Evolving Designs and Innovation in ICT and Intelligent Systems for Real-World Applications](#) [Reliability of Computer and Control Systems](#) **Engineering Optimization Handbook of Research on Industrial Informatics and Manufacturing Intelligence: Innovations and Solutions** [Economics of Design and Test for Electronic Circuits and Systems](#) [IPSec Virtual Private Network Fundamentals](#) **Applied Mechanics Reviews** **Designing Development** **RFID in Operations and Supply Chain Management** [EngOpt 2018 Proceedings of the 6th International Conference on Engineering Optimization](#) [Genomic Designing of Climate-Smart Oilseed Crops](#) [The Inversion Factor](#) [Journal of Agricultural Engineering](#) **Proceedings of the 6th CIRP-Sponsored International Conference on Digital Enterprise Technology** [The Digttest Record of the 1969 Joint Conference on Mathematical and Computer Aids to Design, October 27-31, 1969](#) **Energy Research Abstracts** **Distributed Computer-Aided Engineering** [Mobile Network Forensics: Emerging Research and Opportunities](#)

Annual Review of Communications: Volume 59 Apr 17 2021 An indispensable reference publication for telecommunication and information-industry professionals. Each year, the IEC brings together into one unique resource the most current thinking and practical experience of industry leaders around the world on a variety of topics facing their areas of specialization. This 700+ page reference tool is a must for executives, managers, engineers, analysts, and educators in all sectors of today's changing information industry.

Solutions Manual to Accompany Power System Analysis and Design Oct 24 2021 [Genomic Designing of Climate-Smart Oilseed Crops](#) Feb 02 2020 This book highlights modern strategies and methods to improve oilseed crops in the era of climate change, presenting the latest advances in plant molecular breeding and genomics-driven breeding. Spectacular achievements in the fields of molecular breeding, transgenics and genomics in the last three decades have facilitated revolutionary changes in oilseed-crop-improvement strategies and techniques. Since the genome sequencing of rice, as the first crop plant, in 2002, the genomes of about one dozen oilseed crops have been sequenced and more are to follow. This has made it possible to decipher the exact nucleotide sequence and chromosomal positions of agro-economic genes. Most importantly, comparative genomics and genotyping-by-sequencing have opened up new vistas for exploring available biodiversity, particularly of wild crop relatives, for identifying useful donor genes.

The Inversion Factor Jan 03 2020 Why companies need to move away from a "product first" orientation to pursuing innovation based on customer need. In the past, companies found success with a product-first orientation; they made a thing that did a thing. The Inversion Factor explains why the companies of today and tomorrow will have to abandon the product-first orientation. Rather than asking "How do the products we make meet customer needs?" companies should ask "How can technology help us reimagine and fill a need?" Zipcar, for example, instead of developing another vehicle

for moving people from point A to point B, reimagined how people interacted with vehicles. Zipcar inverted the traditional car company mission. The authors explain how the introduction of "smart" objects connected by the Internet of Things signals fundamental changes for business. The IoT, where real and digital coexist, is powering new ways to meet human needs. Companies that know this include giants like Amazon, Airbnb, Uber, Google, Tesla, and Apple, as well as less famous companies like Tile, Visenti, and Augury. The Inversion Factor offers a roadmap for businesses that want to follow in their footsteps. The authors chart the evolution of three IoTs—the Internet of Things (devices connected to the Internet), the Intelligence of Things (devices that host software applications), and the Innovation of Things (devices that become experiences). Finally, they offer a blueprint for businesses making the transition to inversion and interviews with leaders of major companies and game-changing startups.

[The Digttest Record of the 1969 Joint Conference on Mathematical and Computer Aids to Design, October 27-31, 1969](#) Sep 30 2019

[Power System Analysis and Design](#) Oct 04 2022 [Design Theory and Methodology, DTM '92](#) Dec 26 2021

Geotechnical Earthquake Engineering Sep 22 2021 ... "Included on the Choice list with the outstanding academic Earth Sciences titles 2008" ... This volume describes simplified dynamic analyses that bridge the gap between the rather limited provisions of design codes and the rather eclectic methods used in sophisticated analyses. Graphs and spreadsheets are included for the ease and speed of use of simplified analyses of: soil slope (in)stability and displacements caused by earthquakes, sand liquefaction and flow caused by earthquakes, dynamic soil-foundation interaction, bearing capacity and additional settlement of shallow foundations, earthquake motion effects on tunnels and shafts, frequent liquefaction potential mitigation measures. A number of comments on the assumptions used in different methods, limitation and factors affecting the results are given. Several case histories are also included in the appendices in

order to assess the accuracy and usefulness of the simplified methods. Audience This work is of interest to geotechnical engineers, engineering geologists, earthquake engineers and students.

Chemical Engineering Design Aug 02 2022 *Chemical Engineering Design* is one of the best-known and most widely adopted texts available for students of chemical engineering. It completely covers the standard chemical engineering final year design course, and is widely used as a graduate text. The hallmarks of this renowned book have always been its scope, practical emphasis and closeness to the curriculum. That it is written by practicing chemical engineers makes it particularly popular with students who appreciate its relevance and clarity. Building on this position of strength the fifth edition covers the latest aspects of process design, operations, safety, loss prevention and equipment selection, and much more. Comprehensive in coverage, exhaustive in detail, and supported by extensive problem sets at the end of each chapter, this is a book that students will want to keep to hand as they enter their professional life. The leading chemical engineering design text with over 25 years of established market leadership to back it up; an essential resource for the compulsory design project all chemical engineering students take in their final year A complete and trusted teaching and learning package: the book offers a broader scope, better curriculum coverage, more extensive ancillaries and a more student-friendly approach, at a better price, than any of its competitors Endorsed by the Institution of Chemical Engineers, guaranteeing wide exposure to the academic and professional market in chemical and process engineering.

Chemical Engineering Design Feb 25 2022 'Bottom line: For a holistic view of chemical engineering design, this book provides as much, if not more, than any other book available on the topic.' Extract from *Chemical Engineering Resources* review. *Chemical Engineering Design* is a complete course text for students of chemical engineering. Written for the Senior Design Course, and also suitable for introduction to chemical engineering courses, it covers the basics of unit operations and the latest aspects of process design,

equipment selection, plant and operating economics, safety and loss prevention. It is a textbook that students will want to keep through their undergraduate education and on into their professional lives.

Cost Optimization of Structures Sep 03 2022

While the weight of a structure constitutes a significant part of the cost, a minimum weight design is not necessarily the minimum cost design. Little attention in structural optimization has been paid to the cost optimization problem, particularly of realistic three-dimensional structures. Cost optimization is becoming a priority in all civil engineering projects, and the concept of Life-Cycle Costing is penetrating design, manufacturing and construction organizations. In this groundbreaking book the authors present novel computational models for cost optimization of large scale, realistic structures, subjected to the actual constraints of commonly used design codes. As the first book on the subject this book: Contains detailed step-by-step algorithms Focuses on novel computing techniques such as genetic algorithms, fuzzy logic, and parallel computing Covers both Allowable Stress Design (ASD) and Load and Resistance Factor Design (LRFD) codes Includes realistic design examples covering large-scale, high-rise building structures Presents computational models that enable substantial cost savings in the design of structures Fully automated structural design and cost optimization is where large-scale design technology is heading, thus Cost Optimization of Structures: Fuzzy Logic, Genetic Algorithms, and Parallel Computing will be of great interest to civil and structural engineers, mechanical engineers, structural design software developers, and architectural engineers involved in the design of structures and life-cycle cost optimisation. It is also a pioneering text for graduate students and researchers working in building design and structural optimization.

HoloLens Blueprints Jan 27 2022 Unveil the world of mixed reality with HoloLens About This Book Bring holographic insights to existing line-of-business applications, tools, and workflows Focus on developing end-to-end realistic holographic application. Build interactive model scripts and test them in Unity3D and holographic emulators Who This Book Is For This book is targeted at developers and designers working on mixed-reality developments for complex integrated scenarios using HoloLens. What You Will Learn Interact with holograms using different interaction models Develop your first holographic app Integrate holographic applications with cloud systems Visualize data feeds coming from the cloud through holograms Manage the application distribution of enterprise-enabled HoloLens Integrate HoloLens applications with services deployed on Azure Identify and create 3D Assets and Scenes Use HoloLens to explore the Internet of Things In Detail Do you want to create stunning applications with HoloLens? Are you a developer who is fascinated with Microsoft HoloLens and its capabilities? If so, this is the book for you. This book introduces and demystifies the HoloLens platform and shows you different ways of interaction with computers (mixed-reality). You will start your mixed-reality journey by understanding different types of digital reality. You will learn

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to build your first holographic app. Also, you will understand holographic application integration possibilities within Line of Business Applications using Azure. Moving ahead, you will create Integrated Solutions using IoT with HoloLens. Gradually you'll learn how to create and deploy apps on a device. You will learn to publish application to the store; if you are an enterprise developer, you will also manage and distribute applications for enterprise-enabled or domain-joined HoloLens. Finally, you will develop an end-to-end realistic holographic app, ranging from scenario identification to sketching, development, deployment, and, finally, production. Style and approach The book is a project-based guide to help you to create some really astonishing mixed-reality applications. It will provide end-to-end solutions and enable you to build stunning applications for HoloLens.

SOA Design Patterns Feb 13 2021 "SOA Design Patterns is an important contribution to the literature and practice of building and delivering quality software-intensive systems." - Grady Booch, IBM Fellow "With the continued explosion of services and the increased rate of adoption of SOA through the market, there is a critical need for comprehensive, actionable guidance that provides the fastest possible time to results. Microsoft is honored to contribute to the SOA Design Patterns book, and to continue working with the community to realize the value of Real World SOA." - Steven Martin, Senior Director, Developer Platform Product Management, Microsoft "SOA Design Patterns provides the proper guidance with the right level of abstraction to be adapted to each organization's needs, and Oracle is pleased to have contributed to the patterns contained in this book." - Dr. Mohamad Afshar, Director of Product Management, Oracle Fusion Middleware, Oracle "Red Hat is pleased to be involved in the SOA Design Patterns book and contribute important SOA design patterns to the community that we and our customers have used within our own SOA platforms. I am sure this will be a great resource for future SOA practitioners." - Pierre Fricke Director, Product Line Management, JBoss SOA Platform, Red Hat "A wealth of proven, reusable SOA design patterns, clearly explained and illustrated with examples. An invaluable resource for all those involved in the design of service-oriented solutions." - Phil Thomas, Consulting IT Specialist, IBM Software Group "This obligatory almanac of SOA design patterns will become the foundation on which many organizations will build their successful SOA solutions. It will allow organizations to build their own focused SOA design patterns catalog in an expedited fashion knowing that it contains the wealth and expertise of proven SOA best practices." - Stephen Bennett, Director, Technology Business Unit, Oracle Corporation "The technical differences between service orientation and object orientation are subtle enough to confuse even the most advanced developers. Thomas Erl's book provides a great service by clearly articulating SOA design patterns and differentiating them from similar OO design patterns." - Anne Thomas Manes, VP & Research Director, Burton Group "SOA Design Patterns does an excellent job of laying out and discussing the areas of SOA design that a competent SOA practitioner should

understand and employ." - Robert Laird, SOA Architect, IBM "As always, Thomas delivers again. In a well-structured and easy-to-understand way, this book provides a wonderful collection of patterns each addressing a typical set of SOA design problems with well articulated solutions. The plain language and hundreds of diagrams included in the book help make the complicated subjects of SOA design comprehensible even to those who are new to the SOA design world. It's a must-have reference book for all SOA practitioners, especially for enterprise architects, solution architects, developers, managers, and business process experts." - Canyon Kevin Liu, Solution Architecture Manager, SAP "The concept of service oriented architecture has long promised visions of agile organizations being able to swap out interfaces and applications as business needs change. SOA also promises incredible developer and IT productivity, with the idea that key services would be candidates for cross-enterprise sharing or reuse. But many organizations' efforts to move to SOA have been mired-by organizational issues, by conflicting vendor messages, and by architectures that may amount to little more than Just a Bunch of Web Services. There's been a lot of confusion in the SOA marketplace about exactly what SOA is, what it's supposed to accomplish, and how an enterprise goes about in making it work. SOA Design Patterns is a definitive work that offers clarity on the purpose and functioning of service oriented architecture. SOA Design Patterns not only helps the IT practitioner lay the groundwork for a well-functioning SOA effort across the enterprise, but also connects the dots between SOA and the business requirements in a very concrete way. Plus, this book is completely technology agnostic--SOA Design Patterns rightly focuses on infrastructure and architecture, and it doesn't matter whether you're using components of one kind or another, or Java, or .NET, or Web services, or REST-style interfaces. While no two SOA implementations are alike, Thomas Erl and his team of contributors have effectively identified the similarities in composition services need to have at a sub-atomic level in order to interact with each other as we hope they will. The book identifies 85 SOA design patterns which have been developed and thoroughly vetted to ensure that a service-oriented architecture does achieve the flexibility and loose coupling promised. The book is also compelling in that it is a living document, if you will, inviting participation in an open process to identify and formulate new patterns to this growing body of knowledge." - Joe McKendrick, Independent Analyst, Author of ZDNet's SOA Blog "If you want to truly educate yourself on SOA, read this book." - Sona Srinivasan, Global Client Services & Operations, CISCO "An impressive decomposition of the process and architectural elements that support serviceoriented analysis, design, and delivery. Right-sized and terminologically consistent. Overall, the book represents a patient separation of concerns in respect of the process and architectural parts that underpin any serious SOA undertaking. Two things stand out. First, the pattern relationship diagrams provide rich views into the systemic relationships that structure a service-oriented architecture: these patterns

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are not discrete, isolated templates to be applied mechanically to the problem space; rather, they form a network of forces and constraints that guide the practitioner to consider the task at hand in the context of its inter-dependencies. Second, the pattern sequence diagrams and accompanying notes provide a useful framework for planning and executing the many activities that comprise an SOA engagement." - Ian Robinson, Principal Technology Consultant, ThoughtWorks

"Successful implementation of SOA principles requires a shift in focus from software system means, or the way capabilities are developed, to the desired end results, or real-world effects required to satisfy organizational business processes. In SOA Design Patterns, Thomas Erl provides service architects with a broad palette of reusable service patterns that describe service capabilities that can cut across many SOA applications. Service architects taking advantage of these patterns will save a great deal of time describing and assembling services to deliver the real world effects they need to meet their organization's specific business objectives." - Chuck Georgo, Public Safety and National Security Architect

"In IT, we have increasingly come to see the value of having catalogs of good solution patterns in programming and systems design. With this book, Thomas Erl brings a comprehensive set of patterns to bear on the world of SOA. These patterns enable easily communicated, reusable, and effective solutions, allowing us to more rapidly design and build out the large, complicated and interoperable enterprise SOAs into which our IT environments are evolving." - Al Gough, Business Systems Solutions CTO, CACI International Inc.

"This book provides a comprehensive and pragmatic review of design issues in service-centric design, development, and evolution. The Web site related to this book [SOAPatterns.org] is a wonderful platform and gives the opportunity for the software community to maintain this catalogue...." - Veronica Gacitua Decar, Dublin City University

"Erl's SOA Design Patterns is for the IT decision maker determined to make smart architecture design choices, smart investments, and long term enterprise impact. For those IT professionals committed to service-orientation as a value-added design and implementation option, Patterns offers a credible, repeatable approach to engineering an adaptable business enterprise. This is a must read for all IT architect professionals." - Larry Gloss, VP and General Manager, Information Manufacturing, LLC

"These SOA patterns define, encompass, and comprise a complete repertoire of best practices for developing a world-class IT SOA portfolio for the enterprise and its organizational units through to service and schema analysis and design. After many years as an architect on many SOA projects, I strongly recommend this book be on the shelf of every analyst and technical member of any SOA effort, right next to the SOA standards and guidelines it outlines and elucidates the need for. Our SOA governance standards draw heavily from this work and others from this series." - Robert John Hathaway III, Enterprise Software Architect, SOA Object Systems

"A wise man once told me that wisdom isn't all about knowledge and intelligence, it is just as much about asking questions. Asking questions

is the true mark of wisdom and during the writing of the SOA Design Patterns book Thomas Erl has shown his real qualities. The community effort behind this book is huge meaning that Thomas has had access to the knowledge and experience of a large group of accomplished practitioners. The result speaks for itself. This book is packed with proven solutions to recurring problems, and the documented pros and cons of each solution have been verified by persons with true experience. This book could give SOA initiatives of any scale a real boost." - Herbjörn Wilhelmsen, Architect and Senior Consultant, Objectware

"This book is an absolute milestone in SOA literature. For the first time we are provided with a practical guide on how the principle centric description of service orientation from a vendor-agnostic viewpoint is actually made to work in a language based on patterns. This book makes you talk SOA! There are very few who understand SOA like Thomas Erl does, he actually put's it all together!" - Brian Lokhorst, Solution Architect, Dutch Tax Office

"Service oriented architecture is all about best practices we have learned since IT's existence. This book takes all those best practices and bundles them into a nice pattern catalogue. [It provides] a really excellent approach as patterns are not just documented but are provided with application scenarios through case studies [which] fills the gap between theory and practice." - Shakti Sharma, Senior Enterprise Architect, Sysco Corp

"An excellent and important book on solving problems in SOA [with a] solid structure. Has the potential of being among the major influential books." - Peter Chang, Lawrence Technical University

"SOA Design Patterns presents a vast amount of knowledge about how to successfully implement SOA within an organization. The information is clear, concise, and most importantly, legitimate." - Peter B. Woodhull, President and Principal Architect, Modus21

"SOA Design Patterns offers real insights into everyday problems that one will encounter when investing in services oriented architecture. [It] provides a number of problem descriptions and offers strategies for dealing with these problems. SOA design patterns highlights more than just the technical problems and solutions. Common organizational issues that can hinder progress towards achieving SOA migration are explained along with potential approaches for dealing with these real world challenges. Once again Thomas Erl provides in-depth coverage of SOA terminology and helps the reader better understand and appreciate the complexities of migrating to an SOA environment." - David Michalowicz, Air and Space Operations Center Modernization Team Lead, MITRE Corporation

"This is a long overdue, serious, comprehensive, and well-presented catalog of SOA design patterns. This will be required reading and reference for all our SOA engineers and architects. The best of the series so far! [The book] works in two ways: as a primer in SOA design and architecture it can easily be read front-to-back to get an overview of most of the key design issues you will encounter, and as a reference catalog of design techniques that can be referred to again and again..." - Wendell Ocasio, Architecture Consultant, DoD Military Health Systems,

Agilex Technologies "Thomas has once again provided the SOA practitioner with a phenomenal collection of knowledge. This is a reference that I will come back to time and time again as I move forward in SOA design efforts. What I liked most about this book is its vendor agnostic approach to SOA design patterns. This approach really presents the reader with an understanding of why or why not to implement a pattern, group patterns, or use compound patterns rather than giving them a marketing spiel on why one implementation of a pattern is better than another (for example, why one ESB is better than another). I think as SOA adoption continues to advance, the ability for architects to understand when and why to apply specific patterns will be a driving factor in the overall success and evolution of SOA. Additionally, I believe that this book provides the consumer with the understanding required to chose which vendor's SOA products are right for their specific needs." - Bryan Brew, SOA Consultant, Booz Allen Hamilton

"A must have for every SOA practitioner." - Richard Van Schelven, Principal Engineer, Ericsson

"This book is a long-expected successor to the books on object-oriented design patterns and integration patterns. It is a great reference book that clearly and thoroughly describes design patterns for SOA. A great read for architects who are facing the challenge of transforming their enterprise into a service-oriented enterprise." - Linda Terlouw, Solution Architect, Ordina

"The maturation of Service-Oriented Architecture has given the industry time to absorb the best practices of service development. Thomas Erl has amassed this collective wisdom in SOA Design Patterns, an absolutely indispensable addition to any Service Oriented bookshelf." - Kevin P. Davis, Ph.D

"The problem with most texts on SOA is one of specificity. Architects responsible for SOA implementation in most organizations have little time for abstract theories on the subject, but are hungry for concrete details that they can relate to the real problems they face in their environment. SOA Design Patterns is critical reading for anyone with service design responsibilities. Not only does the text provide the normal pattern templates, but each pattern is applied in detail against a background case study to provide exceptionally meaningful context to the information. The graphic visualizations of the problems and pattern solutions are excellent supplementary companions to the explanatory text. This book will greatly stretch the knowledge of the reader as much for raising and addressing issues that may have never occurred to the reader as it does in treating those problems that are in more common occurrence. The real beauty of this book is in its plain English prose. Unlike so many technical reference books, one does not find themselves re-reading sections multiple times trying to discern the intent of the author. This is also not a reference that will sit gathering dust on a shelf after one or two perusings. Practitioners will find themselves returning over and over to utilize the knowledge in their projects. This is as close as you'll come to having a service design expert sitting over your shoulder." - James Kinneavy, Principal Software Architect, University of California

"As the industry converges on SOA patterns, Erl provides an outstanding reference guide to

composition and integration-and yet another distinctive contribution to the SOA practice." - Steve Birkel, Chief IT Technical Architect, Intel Corp. "With SOA Design Patterns, Thomas Erl adds an indispensable SOA reference volume to the technologist's library. Replete with to-the-point examples, it will be a helpful aid to any IT organization." - Ed Dodds, Strategist, Systems Architect, Convergence "Again, Thomas Erl has written an indispensable guide to SOA. Building on his prior successes, his patterns go into even more detail. Therefore, this book is not only helpful to the SOA beginner, but also provides new insight and ideas to professionals." - Philipp Offermann, Research Scientist, Technische Universität Berlin, Germany "SOA Design Patterns is an extraordinary contribution to SOA best practices! Once again, Thomas has created an indispensable resource for any person or organization interested in or actively engaged in the practice of Service Oriented Architecture. Using case studies based on three very different business models, Thomas guides the reader through the process of selecting appropriate implementation patterns to ensure a flexible, well-performing, and secure SOA ecosystem." - Victor Brown, Managing Partner and Principal Consultant, Cypress Management Group Corporation In cooperation with experts and practitioners throughout the SOA community, best-selling author Thomas Erl brings together the de facto catalog of design patterns for SOA and service-orientation. More than three years in development and subjected to numerous industry reviews, the 85 patterns in this full-color book provide the most successful and proven design techniques to overcoming the most common and critical problems to achieving modern-day SOA. Through numerous examples, individually documented pattern profiles, and over 400 color illustrations, this book provides in-depth coverage of: - Patterns for the design, implementation, and governance of service inventories-collections of services representing individual service portfolios that can be independently modeled, designed, and evolved. - Patterns specific to service-level architecture which pertain to a wide range of design areas, including contract design, security, legacy encapsulation, reliability, scalability, and a variety of implementation and governance issues. - Service composition patterns that address the many aspects associated with combining services into aggregate distributed solutions, including topics such as runtime messaging and message design, inter-service security controls, and transformation. - Compound patterns (such as Enterprise Service Bus and Orchestration) and recommended pattern application sequences that establish foundational processes. The book begins by establishing SOA types that are referenced throughout the patterns and then form the basis of a final chapter that discusses the architectural impact of service-oriented computing in general. These chapters bookend the pattern catalog to provide a clear link between SOA design patterns, the strategic goals of service-oriented computing, different SOA types, and the service-orientation design paradigm. This book series is further supported by a series of resources sites, including soabooks.com, soaspecs.com, soapatterns.org,

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soamag.com, and soaposters.com.

Distributed Computer-Aided Engineering

Jul 29 2019 Networking of personal computers and workstations is becoming commonplace in academic and industrial environments. A cluster of workstations provides engineers with a familiar, cost-effective environment for high performance computing. However, workstations often have no dedicated link and communicate slowly on a local area network (LAN), such as the Ethernet. Thus, to effectively harness the parallel processing or distributed computing capabilities of workstations, new algorithms need to be developed with a higher computation-to-communication ratio.

Distributed Computer-Aided Engineering presents distributed algorithms for three fundamental areas: finite element analysis, design optimization, and visualization - providing a new direction in high performance structural engineering computing.

Design of Water Supply Pipe Networks Jul 21 2021 This authoritative resource consolidates comprehensive information on the analysis and design of water supply systems into one practical, hands-on reference. After an introduction and explanation of the basic principles of pipe flows, it covers topics ranging from cost considerations to optimal water distribution design to various types of systems to writing water distribution programs. With numerous examples and closed-form design equations, this is the definitive reference for civil and environmental engineers, water supply managers and planners, and postgraduate students.

Journal of Agricultural Engineering Dec 02 2019

Economics of Design and Test for Electronic Circuits and Systems Aug 10 2020

Systems Thinking for Management Consultants Jan 15 2021

This book discusses how systems thinking and approaches can aid management consultants in navigating the complexities of client advisory in current realities. It thereby brings to the forefront aspects of holism, flexibility and responsibility - the keys to success in today's world. Management consultants are called in to offer an independent expert view of an organisation/ a situation and are expected to address some of the most pressing problems businesses face. The client does not exist in a silo, but in a complex environment that lies at the intersection of a range of internal and external factors that are often unseen and unpredictable. The organisation itself presents an alien territory that the consultant is expected to acclimatise to within a very short period of time, and come up with solutions that "insiders" would not have been able to visualise. The book presents a range of ideas, concepts and reference cases that are relevant and topical for consultants in their daily work. It argues that systems thinking allows holism and flexibility in management consulting - while holism is about the ability to encompass the environmental and organisational complexity, flexibility is about the ability to think creatively and adopt different approaches to accommodate this complexity. With commentaries, case studies, conceptual models and perspectives that cut across multiple industries, sectors and countries, this book is a valuable resource for academics and

professionals alike. The book's inner pages and its page on Springer.com contain additional comments providing perspectives of clients, industry experts and academia.

Trends in Communication, Cloud, and Big Data

Aug 22 2021 This book presents the outcomes of the Third National Conference on Communication, Cloud and Big Data (CCB) held on November 2-3, 2018, at Sikkim Manipal Institute of Technology, Majitar, Sikkim.

Featuring a number of papers from the conference, it explores various aspects of communication, computation, cloud, and big data, including routing in cognitive radio wireless sensor networks, big data security issues, routing in ad hoc networks, routing protocol for Internet of things (IoT), and algorithm for imaging quality enhancement.

Handbook of Research on Evolving Designs and Innovation in ICT and Intelligent Systems for Real-World Applications Dec 14 2020

The relentless advances in all areas of information and communication technology, intelligent systems, and related domains have continued to drive innovative research. Most of these works have attempted to contribute in some form towards improving human life in general and have become indispensable elements of our day-to-day lives. The evolution continues at an accelerated pace while the world faces innumerable challenges and rapid advances in artificial intelligence, wireless communication, sensors, cloud and edge computing, and biomedical sciences. These advances must be documented and studied further in order to ensure society's continual development. The Handbook of Research on Evolving Designs and Innovation in ICT and Intelligent Systems for Real-World Applications disseminates details of works undertaken by various groups of researchers in emerging areas related to information and communication technology, electronics engineering, intelligent systems, and allied disciplines with real-world applications. Covering a wide range of topics such as augmented reality and wireless sensor networks, this major reference work is ideal for industry professionals, researchers, scholars, practitioners, academicians, engineers, instructors, and students.

Designing Development May 07 2020 The creation of physical and material infrastructure is the cornerstone of human development; not surprisingly, engineers and designers are often motivated and inspired in their practice to improve the world around them, to make things better for others, and to apply their knowledge for the good of mankind. These aspirations often get translated into engineering and design curricula where students and faculty work on development related projects usually under the category of community or service learning. This book presents an overview of such an education and outreach program designed to empower stakeholders to improve their lives. The project described here was an international multi-institutional undertaking that included academic institutions, non-governmental organizations, and private firms. Within the academic setting, an interdisciplinary set of actors that included engineering and industrial design students and faculty worked on the project. We concretize our work by presenting a design case study that illustrates how different approaches can help

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guide the works of engineers and designers as they create global infrastructures and localized artifacts. We emphasize the importance of developing long term relationships with organizations on the ground in order to ensure appropriate design as well as successful transfer and long term use of designed artifacts. We discuss the life trajectories of the authors to provide a grounded perspective on what motivated us to undertake this work and shaped our approach with the intention to demonstrate that there are multiple paths toward this goal. Table of Contents:

Introduction / Development of the Program:

Personal Trajectories Meet Professional

Opportunities / Intellectual Positioning of the

Program: Sociomaterial Infrastructures and

Capable and Convivial Design / Case Study:

Quick Response (QR) Code Based Immunization

Solution / Design for Development Course and

Outreach Initiative / Conclusion: Lessons

Learned

Proceedings of the 6th CIRP-Sponsored

International Conference on Digital

Enterprise Technology Oct 31 2019 This

Proceedings volume contains articles presented

at the CIRP-Sponsored Inter- tional Conference

on Digital Enterprise Technology (DET2009)

that takes place December 14-16, 2009 in Hong

Kong. This is the 6th DET conference in the

series and the first to be held in Asia. Professor

Paul Maropoulos initiated, hosted and chaired

the 1st International DET Conference held in

2002 at the University of D- ham. Since this

inaugural first DET conference, DET

conference series has been s- cessfully held in

2004 at Seattle, Washington USA, in 2006 at

Setubal Portugal, in 2007 at Bath England, and

in 2008 at Nantes France. The DET2009

conference continues to bring together

International expertise from the academic and

industrial fields, pushing forward the

boundaries of research kno- edge and best

practice in digital enterprise technology for

design and manufacturing, and logistics and

supply chain management. Over 120 papers

from over 10 countries have been accepted for

presentation at DET2009 and inclusion in this

Proceedings volume after stringent refereeing

process. On behalf of the organizing and

program committees, the Editors are grateful to

the many people who have made DET2009

possible: to the authors and presenters, es-

pecially the keynote speakers, to those who have

diligently reviewed submissions, to members of

International Scientific Committee, Organizing

Committee and Advisory Committees, and to

colleagues for their hard work in sorting out all

the arrangements. We would also like to extend

our gratitude to DET2009 sponsors, co-

organizers, and supporting organizations.

Energy Research Abstracts Aug 29 2019

CO₂-Reservoir Oil Miscibility Mar 17 2021 This

SpringerBrief critically examines the latest

experimental and non-experimental approaches

used for the fast and reliable characterization

and determination of CO₂-reservoir oil

miscibility in terms of the minimum miscibility

pressure (MMP). This book serves as a one-stop

source for developing an enhanced

understanding of these available methods, and

specifically documents, analyses, and evaluates

their suitability and robustness for depicting

and characterizing the phenomenon of CO₂-

reservoir oil miscibility in a fast and cost-

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effective manner. Such information can greatly assist a project team in selecting an appropriate MMP determination method as per the project's need at a given project's stage, be that screening, design, or implementation. CO₂-Reservoir Oil Miscibility: Experiential and Non-Experimental Characterization and Determination Approaches will be of interest to petroleum science and engineering professionals, researchers, and undergraduate and graduate students engaged in CO₂ enhanced oil recovery (EOR) and/or simultaneous CO₂-EOR and storage projects and related research. It may also be of interest to engineering and management professionals within the petroleum industry who have responsibility for implementing CO₂-EOR projects.

An Introduction to Chemical Engineering

Design May 19 2021 An introduction to the art

and practice of design as applied to chemical

processes and equipment. It is intended

primarily as a text for chemical engineering

students undertaking the design projects that

are set as part of undergraduate courses in

chemical engineering in the UK and USA. It has

been written to complement the treatment of

chemical engineering fundamentals given in

Chemical Engineering volumes 1, 2 and 3.

Examples are given in each chapter to illustrate

the design methods presented.

Handbook of Research on Industrial

Informatics and Manufacturing

Intelligence: Innovations and Solutions Sep

10 2020 "This book is the best source for the

most current, relevant, cutting edge research in

the field of industrial informatics focusing on

different methodologies of information

technologies to enhance industrial fabrication,

intelligence, and manufacturing processes"--

Provided by publisher.

Power System Analysis and Design, SI

Edition Apr 29 2022 Today's readers learn the

basic concepts of power systems as they master

the tools necessary to apply these skills to real

world situations with POWER SYSTEM

ANALYSIS AND DESIGN, 6E. This new edition

highlights physical concepts while also giving

necessary attention to mathematical

techniques. The authors develop both theory

and modeling from simple beginnings so

readers are prepared to readily extend these

principles to new and complex situations.

Software tools and the latest content

throughout this edition aid readers with design

issues while reflecting the most recent trends

in the field. Important Notice: Media content

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ebook version.

Emerging Trends in Electrical,

Communications and Information

Technologies Mar 29 2022 This book includes

the original, peer-reviewed research from the

2nd International Conference on Emerging

Trends in Electrical, Communication and

Information Technologies (ICECIT 2015), held

in December, 2015 at Srinivasa Ramanujan

Institute of Technology, Ananthapuramu,

Andhra Pradesh, India. It covers the latest

research trends or developments in areas of

Electrical Engineering, Electronic and

Communication Engineering, and Computer

Science and Information.

Applied Mechanics Reviews Jun 07 2020

SDL '97: Time for Testing Nov 24 2021 As Cavalli and Sarma astutely remarked in the introduction to this volume, it is quite remarkable that SDL '97 may have the first participant younger than SDL itself. SDL '97 provides the opportunity to reflect the course SDL has taken and why it has been successful over two decades where other languages addressing the same market have failed. SDL now also has a permanent companion in MSC (Message Sequence Charts). MSC today is a language in its own right and has its areas of application both in conjunction with SDL and independently or in combination with other techniques. MSC has strong structuring concepts to specify message sequences for large systems and can be used to develop scenarios, which is extremely useful for test and design environments. The SDL Forum today really is the SDL and MSC Forum.

Power System Analysis and Design Nov 05

2022 Today's readers learn the basic concepts

of power systems as they master the tools

necessary to apply these skills to real world

situations with POWER SYSTEM ANALYSIS

AND DESIGN, 6E. This new edition highlights

physical concepts while also giving necessary

attention to mathematical techniques. The

authors develop both theory and modeling from

simple beginnings so readers are prepared to

readily extend these principles to new and

complex situations. Software tools and the

latest content throughout this edition aid

readers with design issues while reflecting the

most recent trends in the field. Important

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EngOpt 2018 Proceedings of the 6th

International Conference on Engineering

Optimization Mar 05 2020 The papers in this

volume focus on the following topics: design

optimization and inverse problems, numerical

optimization techniques, efficient analysis and

reanalysis techniques, sensitivity analysis and

industrial applications. The conference EngOpt

brings together engineers, applied

mathematicians and computer scientists

working on research, development and

practical application of optimization methods in

all engineering disciplines and applied

sciences.

Harmony Search Algorithms for Structural

Design Optimization May 31 2022 Various

structures, such as buildings, bridges, and

paved roads play an important role in our lives.

However, these construction projects require

large expenditures. Designing infrastructure

cost-efficiently while satisfying all necessary

design constraints is one of the most important

and difficult tasks for a structural engineer.

Traditionally, mathematical gradient-based

optimization techniques have been applied to

these designs. However, these gradient-based

methods are not suitable for discrete design

variables such as factory-made cross sectional

area of structural members. Recently,

researchers have turned their interest to

phenomenon-mimicking optimization

techniques because these techniques have

proved able to efficiently handle discrete design

variables. One of these techniques is harmony

search, an algorithm developed from musical

improvisation that has been applied to various

structural design problems and has

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demonstrated cost-savings. This book gathers all the latest developments relating to the application of the harmony search algorithm in the structural design field in order for readers to efficiently understand the full spectrum of the algorithm's potential and to easily apply the algorithm to their own structural problems. This book contains six chapters with the following subjects: standard harmony search algorithm and its applications by Lee; standard harmony search algorithm for steel frame design by Degertekin; adaptive harmony search algorithm and its applications by Saka and Hasançebi; harmony particle swarm algorithm and its applications by Li and Liu; hybrid algorithm of harmony search, particle swarm & ant colony for structural design by Kaveh and Talatahari; and parameter calibration of viscoelastic and damage functions by Mun and Geem.

IPSec Virtual Private Network Fundamentals

Jul 09 2020 An introduction to designing and configuring Cisco IPsec VPNs Understand the basics of the IPsec protocol and learn implementation best practices Study up-to-date IPsec design, incorporating current Cisco innovations in the security and VPN marketplace Learn how to avoid common pitfalls related to IPsec deployment Reinforce theory with case studies, configuration examples showing how IPsec maps to real-world solutions IPsec Virtual Private Network Fundamentals provides a basic working knowledge of IPsec on various Cisco routing and switching platforms. It provides the foundation necessary to understand the different components of Cisco IPsec implementation and how it can be successfully implemented in a variety of network topologies and markets (service provider, enterprise, financial, government). This book views IPsec as an emerging requirement in most major vertical markets, explaining the need for increased information authentication, confidentiality, and non-repudiation for secure transmission of confidential data. The book is written using a layered approach, starting with basic explanations of why IPsec was developed and the types of organizations relying on IPsec to secure data transmissions. It then outlines the basic IPsec/ISAKMP fundamentals that were developed to meet demand for secure data transmission. The book covers the design and implementation of IPsec VPN architectures using an array of Cisco products, starting with basic concepts and proceeding to more advanced topics including high availability solutions and public key infrastructure (PKI). Sample topology diagrams and configuration examples are provided in each chapter to reinforce the fundamentals expressed in text and to assist readers in translating concepts into practical deployment scenarios. Additionally, comprehensive case studies are incorporated throughout to map topics to real-world solutions.

Reliability of Computer and Control Systems Nov 12 2020 The importance of the reliability of the computer control system can be easily appreciated in the context of life-critical applications such as hazardous chemical plants, nuclear reactors, military systems, intensive care units, and aerospace systems. It is imperative that designers should demonstrably verify and validate the reliability and fault-

tolerant behaviour of real time computer control systems. Beginning with a brief introduction to Reliability Theory, this book presents a state-of-the-art methodology for the design of reliable computer control systems, detailing methods for failure analysis to identify critical failures, systematic procedures for fault monitor design using control-theoretic techniques, and strategies for the design of fault-tolerant computer systems. Various concepts, tools and techniques from such diverse areas as computer science, automatic control, reliability theory, and process systems engineering, are collected and presented in a self-contained manner.

Refactoring for Software Design Smells Jun 19 2021 Awareness of design smells - indicators of common design problems - helps developers or software engineers understand mistakes made while designing, what design principles were overlooked or misapplied, and what principles need to be applied properly to address those smells through refactoring. Developers and software engineers may "know" principles and patterns, but are not aware of the "smells" that exist in their design because of wrong or mis-application of principles or patterns. These smells tend to contribute heavily to technical debt - further time owed to fix projects thought to be complete - and need to be addressed via proper refactoring. Refactoring for Software Design Smells presents 25 structural design smells, their role in identifying design issues, and potential refactoring solutions. Organized across common areas of software design, each smell is presented with diagrams and examples illustrating the poor design practices and the problems that result, creating a catalog of nuggets of readily usable information that developers or engineers can apply in their projects. The authors distill their research and experience as consultants and trainers, providing insights that have been used to improve refactoring and reduce the time and costs of managing software projects. Along the way they recount anecdotes from actual projects on which the relevant smell helped address a design issue. Contains a comprehensive catalog of 25 structural design smells (organized around four fundamental design principles) that contribute to technical debt in software projects Presents a unique naming scheme for smells that helps understand the cause of a smell as well as points toward its potential refactoring Includes illustrative examples that showcase the poor design practices underlying a smell and the problems that result Covers pragmatic techniques for refactoring design smells to manage technical debt and to create and maintain high-quality software in practice Presents insightful anecdotes and case studies drawn from the trenches of real-world projects *Mobile Network Forensics: Emerging Research and Opportunities* Jun 27 2019 Modern communications are now more than ever heavily dependent on mobile networks, creating the potential for higher incidents of sophisticated crimes, terrorism acts, and high impact cyber security breaches. Disrupting these unlawful actions requires a number of digital forensic principles and a comprehensive investigation process. *Mobile Network Forensics: Emerging Research and Opportunities* is an essential reference source

that discusses investigative trends in mobile devices and the internet of things, examining malicious mobile network traffic and traffic irregularities, as well as software-defined mobile network backbones. Featuring research on topics such as lawful interception, system architecture, and networking environments, this book is ideally designed for forensic practitioners, government officials, IT consultants, cybersecurity analysts, researchers, professionals, academicians, and students seeking coverage on the technical and legal aspects of conducting investigations in the mobile networking environment.

Engineering Optimization Oct 12 2020 The revised and updated new edition of the popular optimization book for engineers The thoroughly revised and updated fifth edition of *Engineering Optimization: Theory and Practice* offers engineers a guide to the important optimization methods that are commonly used in a wide range of industries. The author—a noted expert on the topic—presents both the classical and most recent optimizations approaches. The book introduces the basic methods and includes information on more advanced principles and applications. The fifth edition presents four new chapters: Solution of Optimization Problems Using MATLAB; Metaheuristic Optimization Methods; Multi-Objective Optimization Methods; and Practical Implementation of Optimization. All of the book's topics are designed to be self-contained units with the concepts described in detail with derivations presented. The author puts the emphasis on computational aspects of optimization and includes design examples and problems representing different areas of engineering. Comprehensive in scope, the book contains solved examples, review questions and problems. This important book: Offers an updated edition of the classic work on optimization Includes approaches that are appropriate for all branches of engineering Contains numerous practical design and engineering examples Offers more than 140 illustrative examples, 500 plus references in the literature of engineering optimization, and more than 500 review questions and answers Demonstrates the use of MATLAB for solving different types of optimization problems using different techniques Written for students across all engineering disciplines, the revised edition of *Engineering Optimization: Theory and Practice* is the comprehensive book that covers the new and recent methods of optimization and reviews the principles and applications.

RFID in Operations and Supply Chain Management

Apr 05 2020 *Power System Analysis and Design* Jul 01 2022 The new edition of POWER SYSTEM ANALYSIS AND DESIGN provides students with an introduction to the basic concepts of power systems along with tools to aid them in applying these skills to real world situations. Physical concepts are highlighted while also giving necessary attention to mathematical techniques. Both theory and modeling are developed from simple beginnings so that they can be readily extended to new and complex situations. The authors incorporate new tools and material to aid students with design issues and reflect recent trends in the field. Important Notice: Media content referenced within the product description or the product text may not

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