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geotechnical and geoenvironmental engineering. It is also a useful reference and bridge for Earth science graduates embarking on engineering geology courses. Refrigeration Engineering Springer Science & Business Media English abstracts from Kholodil'naia tekhnika. *Thermoset Nanocomposites for Engineering Applications* Packt Publishing Ltd Software

engineering is widely recognized as one of the most exciting, stimulating, and profitable research areas, with a significant practical impact on the software industry. Thus, training future generations of software engineering researchers and bridging the gap between academia and industry are vital to the field. The International Summer School on Software Engineering (ISSSE), which started in 2003, aims to contribute both to training

future researchers and to facilitating the exchange of knowledge between academia and industry. This volume consists of chapters originating from a number of tutorial lectures given in 2009, 2010, and 2011 at the International Summer School on Software Engineering, ISSSE, held in Salerno, Italy. The volume has been organized into three parts, focusing on software measurement and empirical software engineering, software analysis,

and software management. The topics covered include software architectures, software product lines, model driven software engineering, mechatronic systems, aspect oriented software development, agile development processes, empirical software engineering, software maintenance, impact analysis, traceability management, software testing, and search-based software engineering. Fundamentals and Applications of

Controlled Release Drug Delivery Springer Nature This volume contains 64 papers from contributors around the world on a wide range of topics in database systems research. Of special mention are the papers describing the practical experiences of developing and implementing some of the many useful database systems on the market. Readers should find useful new ideas from the proceedings of this international symposium. 21st Century Advanced Carbon Materials for Engineering Applications Elsevier From the Reviews "[This

book] contains an excellent blend of both Shiny-specific topics ... and practical advice from software development that fits in nicely with Shiny apps. You will find many nuggets of wisdom sprinkled throughout these chapters...." Eric Nantz, Host of the R-Podcast and the Shiny Developer Series (from the Foreword) "[This] book is a gradual and pleasant invitation to the production-ready shiny apps world. It ...exposes a

comprehensive and robust workflow powered by the {golem} package. [It] fills the not yet covered gap between shiny app development and deployment in such a thrilling way that it may be read in one sitting.... In the industry world, where processes robustness is a key toward productivity, this book will indubitably have a tremendous impact." David Granjon, Sr. Expert Data Science, Novartis Presented in full

color, Engineering Production-Grade Shiny Apps helps people build production-grade shiny applications, by providing advice, tools, and a methodology to work on web applications with R. This book starts with an overview of the challenges which arise from any big web application project: organizing work, thinking about the user interface, the challenges of teamwork and the production environment. Then, it moves

to a step-by-step methodology that goes from the idea to the end application. Each part of this process will cover in detail a series of tools and methods to use while building production-ready shiny applications. Finally, the book will end with a series of approaches and advice about optimizations for production. Features Focused on practical matters: This book does not cover Shiny concepts, but practical tools

and methodologies to use for production. Based on experience: This book is a formalization of several years of experience building Shiny applications. Original content: This book presents new methodologies and tooling, not just a review of what already exists. Engineering Production-Grade Shiny Apps covers medium to advanced content about Shiny, so it will help people that are already familiar with

building apps with Shiny, and who want to go one step further. Engineering Optimization is of critical importance in engineering. Engineers constantly strive for the best possible solutions, the most economical use of limited resources, and the greatest efficiency. As system complexity increases, these goals mandate the use of state-of-the-art optimization techniques. In recent years, the theory and

methodology of optimization have seen revolutionary improvements. Moreover, the exponential growth in computational power, along with the availability of multicore computing with virtually unlimited memory and storage capacity, has fundamentally changed what engineers can do to optimize their designs. This is a two-way process: engineers benefit from developments in optimization

methodology, and challenging new classes of optimization problems arise from novel engineering applications. *Advances and Trends in Optimization with Engineering Applications* reviews 10 major areas of optimization and related engineering applications, providing a broad summary of state-of-the-art optimization techniques most important to engineering practice. Each part provides a clear overview of a specific

area and discusses a range of real-world problems. The book provides a solid foundation for engineers and mathematical optimizers alike who want to understand the importance of optimization methods to engineering and the capabilities of these methods. [Practical Engineering Application in Electrical Engineering Studies](#) IGI Global Food, Medical, and Environmental Applications of

Polysaccharides provides a detailed resource for those interested in the design and preparation of polysaccharides for state-of-the-art applications. The book begins with an introductory section covering sources, chemistry, architectures, bioactivity, and chemical modifications of polysaccharides. Subsequent parts of the book are organized by field, with chapters focusing on specific applications across food,

medicine, and the potential, environment. This is an extremely valuable book for researchers, scientists, and advanced students in biopolymers, polymer science, polymer chemistry, biomaterials, materials science, biotechnology, biomedical engineering, cosmetics, medicine, food science, and environmental science. This important class of biopolymer can offer attractive properties and modification

enabling its use in groundbreaking areas across food, medical, and environmental fields. The book will be of interest to scientists, R&D professionals, designers, and engineers who utilize polysaccharide-based materials. - Presents comprehensive information of the polymeric structures and properties that can be developed from polysaccharides - Offers systematic coverage of

classification, synthesis, and characterization, enabling targeted design and preparation of polysaccharides for specific applications - Explores advanced methods, for novel applications across food, medicine, and the environment [Air Insulation Prediction Theory and Applications](#) Scholarly Editions Thinking about launching a new career or progressing in your existing career as a Field

Application Engineer or a Technical Sales professional? Do you dream of a career visiting and helping engineers in multiple industries, international travel, and a great salary earned using your ever-increasing technical knowledge? If so, then this is the book for you. This book does not contain hundreds of acronyms and sales buzz words, nor is it full of details you will find in a corporate sales book. If you

want a list of corporate jargon, this isn't the book for you. This book contains a set of hard-and-fast rules and techniques that will propel you out of your engineering comfort zone and into the exciting world of sales. If you have the engineering mentality-on or off, one or zero, black or white, binary way of thinking-this book's direct, efficient approach is just the thing you need to learn the skills required to find success in

your new career! The Author Before working in technical sales, Russell Jay Williamson had many years of design engineering experience. Experience in both a large multinational corporation with over 100,000 employees and a small company with only 11 employees has provided him with a great perspective on how Engineers work in this industry. Since switching into sales, he has developed the skills described

in this book over many years from trial and error.

This book describes these techniques that he has refined and will provide you, the reader, with the shortcuts you need so you don't waste years becoming the best Sales Engineer you can be.

Indian Engineering
Elsevier

In recent years, the science of managing and analyzing large datasets has emerged as a critical area of research. In the race to answer vital questions and make

knowledgeable decisions, impressive amounts of data are now being generated at a rapid pace, increasing the opportunities and challenges associated with the ability to effectively analyze this data.

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This book systematically introduces readers to computational granular mechanics and its relative engineering applications.

Part I describes the fundamentals, such as the generation of irregular particle shapes, contact models, macro-micro theory, DEM-FEM coupling, and solid-fluid coupling of granular materials. It also discusses the theory behind various numerical methods developed in recent years. Further, it provides the GPU-based parallel algorithm to guide the

programming of which illustrate low levels of
DEM and the capabilities vibration as
examines of DEM. The smooth running
commercial and computational leads to
open-source mechanics reduced
codes and method for stresses and
software for granular fatigue and
the analysis of materials can little noise.
granular be applied This book
materials. Part widely in provides a
II focuses on various thorough
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applications, fields, such as the principles
including the rock and soil and methods
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in sea-ice ocean the vibrations
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worked examples are included, as well as problems with worked solutions, and particular attention is paid to the mathematical modelling of dynamic systems and the derivation of the equations of motion. All engineers, practising and student, should have a good understanding of the methods of analysis available for predicting the vibration

response of a system and how it can be modified to produce acceptable results. This text provides an invaluable insight into both. Advances and Trends in Optimization with Engineering Applications Routledge Thermoset nanocomposites represent a new technology solution. These new formulations benefit from improved dime

nsional/thermal stability, flame retardancy and chemical resistance; and have potential applications in marine, industrial and construction markets. This book helps to answer questions related to the design of nanocomposites by controlling the processing technology and structure. The book is addressed not only to researchers and engineers who actively work in the

broad field of nanocomposite technology, but also to newcomers and students who have just started investigations in this mul. Data Warehousing and Mining: Concepts, Methodologies, Tools, and Applications Springer Software product line engineering has proven to be the methodology for developing a diversity of software products and software intensive

systems at lower costs, in shorter time, and with higher quality. In this book, Pohl and his co-authors present a framework for software product line engineering which they have developed based on their academic as well as industrial experience gained in projects over the last eight years. They do not only detail the technical aspect of the development, but also an integrated view of the business, organisation and process aspects are given. In

addition, they explicitly point out the key differences of software product line engineering compared to traditional single software system development, as the need for two distinct development processes for domain and application engineering respectively, or the need to define and manage variability. Advances in Biomedical Engineering Research and Application: 2012 Edition Springer Nature Delve into the

world of mobile application reverse engineering, learn the fundamentals of how mobile apps are created and their internals, and analyze application binaries to find security issues

Key Features

- Learn the skills required to reverse engineer mobile applications
- Understand the internals of iOS and Android application binaries
- Explore modern reverse engineering tools such as Ghidra, Radare2, Hopper, and

more Book Description

Mobile App Reverse Engineering is a practical guide focused on helping cybersecurity professionals scale up their mobile security skills. With the IT world's evolution in mobile operating systems, cybercriminals are increasingly focusing their efforts on mobile devices. This book enables you to keep up by discovering security issues through reverse engineering of mobile apps. This book starts

with the basics of reverse engineering and teaches you how to set up an isolated virtual machine environment to perform reverse engineering. You'll then learn about modern tools such as Ghidra and Radare2 to perform reverse engineering on mobile apps as well as understand how Android and iOS apps are developed. Next, you'll explore different ways to reverse engineer some sample mobile apps developed for this book. As

you advance, you'll learn how reverse engineering can help in penetration testing of Android and iOS apps with the help of case studies. The concluding chapters will show you how to automate the process of reverse engineering and analyzing binaries to find low-hanging security issues. By the end of this reverse engineering book, you'll have developed the skills you need to be able to reverse

engineer Android and iOS apps and streamline the reverse engineering process with confidence. What you will learn • Understand how to set up an environment to perform reverse engineering • Discover how Android and iOS application packages are built • Reverse engineer Android applications and understand their internals • Reverse engineer iOS applications built using Objective C and Swift programming •

Understand real-world case studies of reverse engineering • Automate reverse engineering to discover low-hanging vulnerabilities • Understand reverse engineering and how its defense techniques are used in mobile applications Who this book is for This book is for cybersecurity professionals, security analysts, mobile application security enthusiasts, and penetration testers interested in

understanding the internals of iOS and Android apps through reverse engineering. Basic knowledge of reverse engineering as well as an understanding of mobile operating systems like iOS and Android and how mobile applications work on them are required. Engineering Production-Grade Shiny Apps Springer Engineering Applications in Livestock Production covers the recent advancements and technological developments in the field of

livestock production engineering in great detail. The major advances covered in this book include the use of artificial intelligence, image processing, Internet of Things, novel animal product processing technologies, farm automation systems, sensor technology, bioengineering practices and even engineered housing systems among others. - The book includes applications of emerging sensor based and intelligent techniques/systems in the field of livestock production and management -

The book will have separate chapters dedicated to innovative approaches in the livestock sector such as artificial intelligence, micro and nano sensors, IoT, image processing and farm automation - Specialists contribution of chapters provide comprehensive details while assisting the understanding of the concepts Earth Science for Civil and Environmental Engineers CRC Press This first book on nanocellulose and nanohydrogels for biomedical applications is unique in

discussing recent also covers the factors towards
advancements in current status the biomedical
the field, and future sector of
resulting in a perspectives of biosensors, biop
comprehensive, bacterial harmaceuticals,
well-structured cellulose and tissue
overview of polyester engineering
nanocellulose hydrogel appliances,
and matrices, their implant
nanohydrogel preparation, materials,
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The book covers engineering surgical aids are
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characterization, nanogel synthesis
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applications in involvement in applicability to
the the current different
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and biomedical technologies, challenges
fields. The book and influencing associated with

their use, recent advances on the inhibitors of apoptosis proteins are also included. The recent developments and applications in the drug delivery sector gives an overview of facts about the nanofibrillated cellulose and copoly (amino acid) hydrogel matrices in the biotechnology and biomedicine field. This book serves as an essential reference for researchers and academics in chemistry, pharmacy, microbiology,

materials science and biomedical engineering. Artificial Intelligence for Science and Engineering Applications Elsevier "This book covers industrial databases and applications and offers generic database modeling techniques" -- Provided by publisher. Intelligent Robotics and Applications John Wiley & Sons The 9-volume set LNAI 14267-14275 constitutes the proceedings of the 16th International

Conference on Intelligent Robotics and Applications, ICIRA 2023, which took place in Hangzhou, China, during July 5 – 7, 2023. The 413 papers included in these proceedings were carefully reviewed and selected from 630 submissions. They were organized in topical sections as follows: Part I: Human-Centric Technologies for Seamless Human-Robot

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| Collaboration; Multimodal Collaborative Perception and Fusion; Intelligent Robot Perception in Unknown Environments; Vision-Based Human Robot Interaction and Application. Part II: Vision- Based Human Robot Interaction and Application; Reliable AI on Machine Human Reactions; Wearable Sensors and Robots; Wearable Robots for Assistance, | Augmentation and Rehabilitation of Human Movements; Perception and Manipulation of Dexterous Hand for Humanoid Robot. Part III: Perception and Manipulation of Dexterous Hand for Humanoid Robot; Medical Imaging for Biomedical Robotics; Advanced Underwater Robot Technologies; Innovative Design and Performance Evaluation of | Robot Mechanisms; Evaluation of Wearable Robots for Assistance and Rehabilitation; 3D Printing Soft Robots. Part IV: 3D Printing Soft Robots; Dielectric Elastomer Actuators for Soft Robotics; Human-like Locomotion and Manipulation; Pattern Recognition and Machine Learning for Smart Robots. Part V: Pattern Recognition and Machine Learning for |
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| Smart Robots; Clinically Robotic Tactile Oriented Sensation, Design in Perception, and Robotic Applications; Surgery and Advanced Rehabilitation; Sensing and Visual and Control Visual-Tactile Technology for Perception for Human-Robot Robotics. Part Interaction; Knowledge-Based VII: Visual and Robot Decision- Visual-Tactile Making and Perception for Manipulation; Robotics; Design and Perception, and Control of Control of Legged Robots. Wearable Part VI: Design Robots; Marine and Control of Robotics and Legged Robots; Applications; Robots in Multi-Robot Tunnelling and Systems for Underground Real World Space; Robotic Applications; Machining of Physical and Complex Neurological Components; Human-Robot | Interaction. Part VIII: Physical and Neurological Human-Robot Interaction; Advanced Motion Control Technologies for Mobile Robots; Intelligent Inspection Robotics; Robotics in Sustainable Manufacturing for Carbon Neutrality; Innovative Design and Performance Evaluation of Robot Mechanisms. Part IX: Innovative Design and |
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Performance Evaluation of Robot Mechanisms; Cutting-Edge Research in Robotics. Engineering Information Security BoD – Books on Demand
This book collects selected papers from the 7th Conference on Signal and Information Processing, Networking and Computers held in Rizhao, China, on September 21-23, 2020.
The 7th

International Conference on Signal and Information Processing, Networking and Computers (ICSINC) was held in Rizhao, China, on September 21-23, 2020.
Introduction to Simulink with Engineering Applications CRC Press
Incorporating HC 470-i-iii, 640-i-iii, 599-i-iii, 1064-i, 1202-i, 1194-i of session 2007-08