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Database Reliability Engineering 2017-10-26 the infrastructure as code revolution in it is also affecting database administration with this practical book developers system administrators and junior to mid level dbas will learn how the modern practice of site reliability engineering applies to the craft of database architecture and operations authors laine campbell and charity majors provide a framework for professionals looking to join the ranks of today s database reliability engineers dbre you ll begin by exploring core operational concepts that dbres need to master then you ll examine a wide range of database persistence options including how to implement key technologies to provide resilient scalable and performant data storage and retrieval with a firm foundation in database reliability engineering you ll be ready to dive into the architecture and operations of any modern database this book covers service level requirements and risk management building and evolving an architecture for operational visibility infrastructure engineering and infrastructure management how to facilitate the release management process data storage indexing and replication identifying datastore characteristics and best use cases datastore architectural components and data driven architectures

Disaster-Resilient Infrastructure 2022-04-01 infrastructure has played a critical role in asia and the pacific s rapid economic growth roads bridges and power networks among other assets are part of people s daily lives and a foundation for their economic opportunity but increasing disaster risks and climate change is forcing us to rethink how we manage infrastructure this publication identifies opportunities to deliver resilient infrastructure across developing asia it takes a holistic view of practices that affect infrastructure resilience including risk assessment investment appraisal and operation and maintenance across the life cycle of an asset as well as overarching approaches to achieving system wide resilience financing and governance objectives

Progressive Decision-Making Tools and Applications in Project and Operation Management 1994 for reasons both financial and environmental there is a perpetual need to optimize the design and operating conditions of industrial process systems in order to improve their performance energy efficiency profitability safety and reliability however with most chemical engineering application problems having many variables with complex inter relationships meeting these optimization objectives can be challenging this is where multi objective optimization moo is useful to find the optimal trade offs among two or more conflicting objectives this book provides an overview of the recent developments and applications of moo for modeling design and operation of chemical petrochemical pharmaceutical energy and related processes it then covers important theoretical and computational developments as well as specific applications such as metabolic reaction networks chromatographic systems co2 emissions targeting for petroleum refining units ecodesign of chemical processes ethanol purification and cumene process design multi objective optimization in chemical engineering developments and applications is an invaluable resource for researchers and graduate students in chemical engineering as well as industrial practitioners and engineers involved in process design modeling and optimization

Maintenance and Operation of Bulk Grain Stores 2013-03-20 this book presents recent advances towards the goal of enabling efficient implementation of machine learning models on resource constrained systems covering different application domains the focus is on presenting interesting and new use cases of applying machine learning to innovative application domains exploring the efficient hardware design of efficient machine learning accelerators memory optimization techniques illustrating model compression and neural architecture search techniques for energy efficient and fast execution on resource constrained hardware platforms and understanding hardware software codesign techniques for achieving even greater energy reliability and performance benefits discusses efficient implementation of machine learning in embedded cps iot and edge computing offers comprehensive coverage of hardware design software design and hardware software co design and co optimization describes real applications to demonstrate how embedded cps iot and edge applications benefit from machine learning

Multi-Objective Optimization in Chemical Engineering 2023-10-09 the economics of microgrids an incisive and practical exploration of the engineering economics of microgrids in the economics of microgrids a pair of distinguished researchers delivers an expert discussion of the microeconomic perspectives on microgrids in the context of low carbon sustainable energy delivery in the book readers will explore an engineering economics framework on the investment decisions and capital expenditure analyses required for an assessment of microgrid projects the authors also examine economic concepts and models for minimizing microgrid operation costs including the cost of local generation

resources and energy purchases from main grids to supply local loads the book presents economic models for the expansion of microgrids under load and market price uncertainties as well as discussions of the economics of resilience in microgrids for optimal operation during outages and power disturbances readers will also find a thorough introduction to the engineering and economics of microgrids comprehensive explorations of microgrid planning under uncertainty practical discussions of microgrid expansion planning operations management and renewable energy integration fulsome treatments of asset management and resilience economics in microgrids perfect for senior undergraduate and graduate students as well as researchers studying power system design the economics of microgrids will also benefit professionals working in the power system industry and government regulators and policymakers with an interest in microgrid technologies and infrastructure

Embedded Machine Learning for Cyber-Physical, IoT, and Edge Computing 1872 this proceedings volume convenes selected peer reviewed contributions presented at the poms 2021 international conference on production and operations management which was virtually held in lima peru december 2 4 2021 this book presents results in the field of operations management of key relevance to practitioners instructors and students topics focus on operations management logistics and supply chain management and industrial and production engineering and management where mathematics and its applications play a role in this work readers will find a colorful collection of real world case studies accompanied by operations research based managerial models they touch on myriad topics ranging from artificial intelligence and data analytics in operations defense tourism and other emerging issues in operations management to healthcare operations management and humanitarian operations and crisis management the poms lima 2021 international conference has been organized by the latin america caribbean chapter of the production and operations management society the most renowned professional and academic organization representing the interests of production and operations management professionals and academicians around the world since 2018 poms international conferences have been organized by poms la the first venue being in rio de janeiro brazil venue 2021 event was hosted by the pontifical catholic university of peru and pacific university two peruvian latin american leading academic institutions from peru

Official Gazette of the United States Patent Office 1967 fundamentals and operations in food process engineering deals with the basic engineering principles and transport processes applied to food processing followed by specific unit operations with a large number of worked out examples and problems for practice in each chapter the book is divided into four sections fundamentals in food process engineering mechanical operations in food processing thermal operations in food processing and mass transfer operations in food processing the book is designed for students pursuing courses on food science and food technology including a broader section of scientific personnel in the food processing and related industries

Official Gazette of the United States Patent Office 2023-10-04 ☐

The Economics of Microgrids 2022-10-03 waste a handbook for management second edition provides information on a wide range of hot topics and developing areas such as hydraulic fracturing microplastics waste management in developing countries and waste exposure outcome pathways beginning with an overview of the current waste landscape including green engineering processing principles and regulations the book then outlines waste streams and treatment methods for over 25 different types of waste and reviews best practices and management challenges for developing countries risk assessment contaminant pathways and risk tradeoffs with an overall focus on waste recovery reuse prevention and lifecycle analysis the book draws on the experience of an international team of expert contributors to provide reliable guidance on how best to manage wastes for scientists managers engineers and policymakers in both the private and public sectors covers the assessment and treatment of different waste streams in a single book provides a hands on report on each type of waste problem as written by an expert in the field highlights new findings and evolving problems in waste management via discussion boxes

Production and Operations Management 2019-03-08 cultivate your entrepreneurial spirit with insights from startup to success this book offers practical advice and inspiration for aspiring entrepreneurs covering the journey from initial idea to thriving business

Fundamentals and Operations in Food Process Engineering 1953 environmental systems science theory and practical

applications looks at pollution and environmental quality from a systems perspective credible human and ecological risk estimation and prediction methods are described including life cycle assessment feasibility studies pollution control decision tools and approaches to determine adverse outcome pathways fate and transport sampling and analysis and cost effectiveness the book brings translational science to environmental quality applying groundbreaking methodologies like informatics data mining and applications of secondary data systems multiple human and ecological variables are introduced and integrated to support calculations that aid environmental and public health decision making the book bridges the perspectives of scientists engineers and other professionals working in numerous environmental and public health fields addressing problems like toxic substances deforestation climate change and loss of biological diversity recommending sustainable solutions to these and other seemingly intractable environmental problems the causal agents discussed include physical chemical and biological agents such as per and polyfluoroalkyl substances pfas sars cov 2 the covid 19 virus and other emerging contaminants provides an optimistic and interdisciplinary approach underpinned by scientific first principles and theory to evaluate pollutant sources and sinks applying biochemodynamic methods measurements and models deconstructs prior initiatives in environmental assessment and management using an interdisciplinary approach to evaluate what has worked and why lays out a holistic understanding of the real impact of human activities on the current state of pollution linking the physical sciences and engineering with socioeconomic cultural perspectives and environmental justice takes a life cycle view of human and ecological systems from the molecular to the planetary scale integrating theories and tools from various disciplines to assess the current and projected states of environmental quality explains the elements of risk reliability and resilience of built and natural systems including discussions of toxicology sustainability and human pollutant interactions based on spatial biological and human activity information i e the exposome

The Canadian Patent Office Record and Register of Copyrights and Trade Marks 2021-04 this book constitutes the proceedings of the 18th international conference on mathematical optimization theory and operations research motor 2019 held in ekaterinburg russia in july 2019 the 48 full papers presented in this volume were carefully reviewed and selected from 170 submissions motor 2019 is a successor of the well known international and all russian conference series which were organized in ural siberia and the far east for a long time the selected papers are organized in the following topical sections mathematical programming bi level optimization integer programming combinatorial optimization optimal control and approximation data mining and computational geometry games and mathematical economics

󰀀 󰀀 󰀀 󰀀 󰀀 󰀀 󰀀 󰀀 󰀀 󰀀 󰀀 1996 system center operations manager 2007 is the new version of microsoft operations manager 2005 and offers valuable new advantages for improving the manageability of microsoft servers and applications with this book you ll get high level instruction for using microsoft s powerful server administration tool to manage exchange server 2007 focused on monitoring and managing exchange server using microsoft s powerful new server admin tool this book delivers exactly the information you need to deploy manage and maintain systems center operations manager 2007

Tongue River Railroad Company, Inc., Construction and Operation, Western Alignment, Tongue River III, Rosebud and Big Horn Counties 2017-01-26 many books and articles have been written on wars in narrow seas however none deals in any comprehensive manner with the problems of strategy and conduct of naval operations the aim of this book is to explain in some detail the characteristics of a war fought in narrow seas and to compare and contrast strategy and major operations in narrow seas and naval warfare in the open ocean

Resilient Operating Strategies Against Weather-Related and Cybersecurity-Related Events 2019-03-05 how should we organize our selection or training procedures in what way can a flight crew mediate problems how are we to understand reported errors mechanisms in the chain of safety presents recent findings in aviation psychology bringing fresh insights to such questions aviation psychologists study personnel selection and training they evaluate the management of flight operations and ultimately they analyse the things that went wrong the strong interrelation between these components allows us to talk about a chain of safety this volume appraises this chain of safety by considering the mechanisms that determine its effectiveness input mechanisms coping mechanisms and control mechanisms each contribution discusses a component of the chain while the book as a whole emphasizes and illustrates that understanding the connections between these parts is essential for the future by addressing these issues the book

leads to further considerations such as how mistakes are linked to training and how coping mechanisms should help us to understand errors and accidents mechanisms in the chain of safety will appeal to aviation professionals human factors experts safety managers pilots atcos air navigation service providers etc and academics researchers graduates and postgraduates in human factors and psychology although primarily written for the aviation industry this book will also be of interest to other high risk dynamic activities that face similar challenges the need to present effective and safe outcomes to the public in general and the stakeholders in particular

Waste 1997 this proceedings volume convenes peer reviewed selected papers presented at the xxviii international joint conference on industrial engineering and operations management ijcieom that was held in mexico city mexico july 17 20 2022 with a special focus on applications of industrial engineering and operations management for research and practice fields covered include operations manufacturing industrial and production engineering and management emphasizing optimization models and data science applications to real world problems in this book the reader will find works on topics as optimization models stochastic optimization digital transformation in the supply chain data science applications in operations management industry 4 0 manufacturing planning control blockchain intelligent transportation systems sustainable and reverse logistics big data and demand planning predictive and prescriptive analytics last mile delivery optimization stochastic inventory models new trends in information technology for operation management stochastic optimization optimization models for omnichannel safety in operation management and more this volume includes relevant information for academics since most of the chapters focus on real world case studies and systematic reviews but also for professionals in the industrial sector as it presents solutions to complex industrial challenges previous 2018 2019 2020 and 2021 ijcieom proceedings can also be found in springer s catalog

Official Gazette of the United States Patent and Trademark Office 2023-11-20 includes list of replacement pages

Entrepreneurial Spirit: From Startup to Success Story 1993 the smart cyber ecosystem for sustainable development as the entire ecosystem is moving towards a sustainable goal technology driven smart cyber system is the enabling factor to make this a success and the current book documents how this can be attained the cyber ecosystem consists of a huge number of different entities that work and interact with each other in a highly diversified manner in this era when the world is surrounded by many unseen challenges and when its population is increasing and resources are decreasing scientists researchers academicians industrialists government agencies and other stakeholders are looking toward smart and intelligent cyber systems that can guarantee sustainable development for a better and healthier ecosystem the main actors of this cyber ecosystem include the internet of things iot artificial intelligence ai and the mechanisms providing cybersecurity this book attempts to collect and publish innovative ideas emerging trends implementation experiences and pertinent user cases for the purpose of serving mankind and societies with sustainable societal development the 22 chapters of the book are divided into three sections section i deals with the internet of things section ii focuses on artificial intelligence and especially its applications in healthcare whereas section iii investigates the different cyber security mechanisms audience this book will attract researchers and graduate students working in the areas of artificial intelligence blockchain internet of things information technology as well as industrialists practitioners technology developers entrepreneurs and professionals who are interested in exploring designing and implementing these technologies

Marine System Design and Operation 2021-05-27 this book offers a structured overview and a comprehensive guide to the emerging field of autonomous intelligent cyber defense agents aica the book discusses the current technical issues in autonomous cyber defense and offers information on practical design approaches the material is presented in a way that is accessible to non specialists with tutorial information provided in the initial chapters and as needed throughout the book the reader is provided with clear and comprehensive background and reference material for each aspect of aica today s cyber defense tools are mostly watchers they are not active doers they do little to plan and execute responses to attacks and they don t plan and execute recovery activities response and recovery core elements of cyber resilience are left to human cyber analysts incident responders and system administrators this is about to change the authors advocate this vision provide detailed guide to how such a vision can be realized in practice and its current state of the art this book also covers key topics relevant to the field including functional requirements and alternative architectures of aica how it perceives and understands threats and the overall situation how it plans and executes response and recovery how it survives threats and how human operators deploy and control aica additionally this

book covers issues of testing risk and policy pertinent to aica and provides a roadmap towards future r d in this field this book targets researchers and advanced students in the field of cyber defense and resilience professionals working in this field as well as developers of practical products for cyber autonomy will also want to purchase this book

Environmental Systems Science 2019-06-12 power systems operation with 100 renewable energy sources combines fundamental concepts of renewable energy integration into power systems with real world case studies to bridge the gap between theory and implementation the book examines the challenges and solutions for renewable energy integration into the transmission and distribution grids and also provides information on design analysis and operation starting with an introduction to renewable energy sources and bulk power systems including policies and frameworks for grid upgradation the book then provides forecasting modeling and analysis techniques for renewable energy sources subsequent chapters discuss grid code requirements and compliance before presenting a detailed break down of solar and wind integration into power systems other topics such as voltage control and optimization power quality enhancement and stability control are also considered filled with case studies applications and techniques power systems operation with 100 renewable energy sources is a valuable read to researchers students and engineers working towards more sustainable power systems explains volt var control and optimization for both transmission grid and distribution discusses renewable energy integration into the weak grid system along with its challenges examples and case studies offers simulation examples of renewable energy integration studies that readers will perform using advanced simulation tools presents recent trends like energy storage systems and demand responses for improving stability and reliability

Mathematical Optimization Theory and Operations Research 2009-02-25 learning theory and online technologies offers a powerful overview of the current state of online learning the foundations of its historical roots and growth and a framework for distinguishing between the major approaches to online learning it addresses pedagogy how to design an effective online environment for learning evaluation how to know that students are learning and history how past research can guide successful online teaching and learning outcomes an ideal textbook for undergraduate education and communication programs as well as educational technology masters ph d and certificate programs learning theory and online technologies provides a synthesis of the key advances in online education learning theory and the key frameworks of research and clearly links theory and research to successful learning practice this revised second edition updates data on digital media adoption globally adds a new chapter on connectivism as a learning theory and updates the chapter on online collaborative learning renaming the theory as collaborativism and considering the challenges that arise with the growth of artificial intelligence

Monitoring Exchange Server 2007 with System Center Operations Manager 2004-11-23 this book summarizes the main achievements of the ec funded 6th framework program project cofcluo clearance of flight control laws using optimization this project successfully contributed to the achievement of a top level objective to meet society s needs for a more efficient safer and environmentally friendly air transport by providing new techniques and tools for the clearance of flight control laws this is an important part of the certification and qualification process of an aircraft a costly and time consuming process for the aeronautical industry the overall objective of the cofcluo project was to develop and apply optimization techniques to the clearance of flight control laws in order to improve efficiency and reliability in the book the new techniques are explained and benchmarked against traditional techniques currently used by the industry the new techniques build on mathematical criteria derived from the certification and qualification requirements together with suitable models of the aircraft the development of these criteria and models are also presented in the book because of wider applicability the optimization based clearance of flight control laws will open up the possibility to design innovative aircraft that today are out of the scope using classical clearance tools optimization based clearance will not only increase safety but it will also simplify the whole certification and qualification process thus significantly reduce cost the achieved speedup will also support rapid modeling and prototyping and reduce time to market

Naval Strategy and Operations in Narrow Seas 2017-09-18 this essential handbook outlines the latest research on operations management teaching and identifies new developments in the overall trends of de globalisation sustainability and digitalisation it highlights contemporary developments in teaching practice providing theoretical insights into potential future pedagogical directions

Mechanisms in the Chain of Safety 1870 addressing the chronic underestimation of capital and operating costs in urban transportation projects this book provides a detailed analysis of the cost estimating process using case studies from three u s cities and outlines a practical framework for this process the work goes beyond a simple quantitative approach to explaining cost underestimation and looks at the planning process as a tool for both argumentation and structuring the argumentation this approach highlights the difficulties in several components of the estimating process and suggests specific and practical actions to address these problems the proposed framework will strengthen the estimating function and the link between analysis and decision in urban transportation planning this work will be of interest to scholars and practitioners in transportation planning urban planning and transportation engineering

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Industrial Engineering and Operations Management 1922

Official Gazette of the United States Patent Office 1920

Manual of Classification 2021-09-08

The Smart Cyber Ecosystem for Sustainable Development 1960-07

The Canadian Patent Office Record and Register of Copyrights 1870

House Documents 1925

Scientific Canadian Mechanics' Magazine and Patent Office Record 1918

The Canadian Patent Office Record 2023-07-04

Autonomous Intelligent Cyber Defense Agent (AICA) 2023-11-08

Power Systems Operation with 100% Renewable Energy Sources 2017-05-16

Learning Theory and Online Technologies 2011-11-23

Optimization Based Clearance of Flight Control Laws 2024-05-02

Handbook on Teaching and Learning in Operations Management 1928

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