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The Art of Support 16th European Symposium on Computer Aided Process Engineering and 9th International Symposium on Process Systems Engineering Internet of Things (IoT) A Quick Start Guide Hands-On Industrial Internet of Things The performance manager : proven strategies for turning information into higher business performance Flexible Product Development Instrument Engineers' Handbook, Volume 3 Dialogue Mapping Gas Turbines for Electric Power Generation The Microsoft SQL Server 2000 Analysis Services Step by Step Industrial Network Security Emerging Technologies Entrepreneurship and Business Development in the Renewable Energy Sector Real-Time Optimization Manufacturing Performance Management using SAP OEE MATLAB Graphical Programming SCADA Security - What's broken and how to fix it In Pursuit of the Perfect Plant JMP for Mixed Models Synchronized Phasor Measurements and Their Applications Visual Privacy Management Practical Customer Success Management Official Gazette of the United States Patent and Trademark Office Smart Master Planning for Cities Smart Grid e-Learning by Design WSO2 Developer's Guide The Frackers Encyclopedia of Sustainable Technologies IoT Inc: How Your Company Can Use the Internet of Things to Win in the Outcome Economy A World Trade-Import-Export Business-Job Guide Standard Handbook for Electrical Engineers Sixteenth Edition Toyota Production System Chemical Engineering The Success Case Method SME Mineral Processing and Extractive Metallurgy Handbook The Road to Integration Writing Real Programs in DCL The Collaborative Organization: A Strategic Guide to Solving Your Internal Business Challenges Using Emerging Social and Collaborative Tools Modern Gas Turbine Systems

Real-Time Optimization Jan 08 2022 This book is a printed edition of the Special Issue "Real-Time Optimization" that was published in Processes

Smart Master Planning for Cities Feb 26 2021 This book, based on international collaborative research, presents a state-of-the-art design for "Smart Master Planning" for all metropolises, megacities and meta cities as well as at sub-city zonal and community and neighborhood level. Smart Master Planning accepts that all cities are a smart city in making in a limited way as far as the six components for Smart Cities; namely, smart people, smart economy, smart environment, smart mobility and smart Governance are concerned. Smart Master Planning in any city can only be designed and executed by active roles of Smart People and Smart City Government and is a joint and synchronous effort of E-Democracy, E-Governance and ICT-IOT system in a 24 hour 7-day framework on all activities. In addition to use of Information and Communication Technologies, and Remote Sensing, the design of smart Master Planning utilizes domain specific tools of many aspects of a city to realize the coordinated, effective and efficient

planning, management, development and conservation that improve ecological, social, biophysical, psychological and economic well-being in an equitable manner without compromising the sustainability of development ecosystems and stakeholders. This book will present 12 case studies covering more than 12 cities or more cities centered on domain-specific smart planning components. Case studies of Domain Innovations include Urban Land management, Master Planning for Water Management, Comprehensive Master Planning Innovations, Smart Use of Master Plan basics, Integrated Smart Master Planning, and Citizen-Centric Master Planning.

Dialogue Mapping Jul 14 2022 In contrast to the use of agendas and restrictive structures, dialogue mapping is a facilitation technique that allows the intelligence and learning of the group to emerge naturally. Each participant can see how their comments contribute (or don't) to the coherence and order of the group's thinking. The first full-length book to bring dialogue mapping to a wider audience, Dialogue Mapping provides an exciting new conceptual framework that will change the way readers view projects and project management. Smart Grid Jan 28 2021 The book is written as primer hand book for addressing the fundamentals of smart grid. It provides the working definition the functions, the design criteria and the tools and techniques and technology needed for building smart grid. The book is needed to provide a working guideline in the design, analysis and development of Smart Grid. It incorporates all the essential factors of Smart Grid appropriate for enabling the performance and capability of the power system. There are no comparable books which provide information on the "how to" of the design and analysis. The book provides a fundamental discussion on the motivation for the smart grid development, the working definition and the tools for analysis and development of the Smart Grid. Standards and requirements needed for designing new devices, systems and products are discussed; the automation and computational techniques need to ensure that the Smart Grid guarantees adaptability, foresight alongside capability of handling new systems and components are discussed. The interoperability of different renewable energy sources are included to ensure that there will be minimum changes in the existing legacy system. Overall the book evaluates different options of computational intelligence, communication technology and decision support system to design various aspects of Smart Grid. Strategies for demonstration of Smart Grid schemes on selected problems are presented.

The Microsoft SQL Server 2000 Analysis Services Step by Step May 12 2022 This book introduces OLAP with progressive lessons to help readers begin creating solutions quickly and is the only self-paced training manual about Microsoft OLAP Services for the non-programmer and Excel super user.

The Road to Integration Jan 16 2020 Explains how to apply ISA-95 in manufacturing

enterprise systems (MES) and vertical integration projects, and reveals important ISA-95 models and terminology.

Instrument Engineers' Handbook, Volume 3 Aug 15 2022 Instrument Engineers' Handbook - Volume 3: Process Software and Digital Networks, Fourth Edition is the latest addition to an enduring collection that industrial automation (AT) professionals often refer to as the "bible." First published in 1970, the entire handbook is approximately 5,000 pages, designed as standalone volumes that cover the measurement (Volume 1), control (Volume 2), and software (Volume 3) aspects of automation. This fourth edition of the third volume provides an in-depth, state-of-the-art review of control software packages used in plant optimization, control, maintenance, and safety. Each updated volume of this renowned reference requires about ten years to prepare, so revised installments have been issued every decade, taking into account the numerous developments that occur from one publication to the next. Assessing the rapid evolution of automation and optimization in control systems used in all types of industrial plants, this book details the wired/wireless communications and software used. This includes the ever-increasing number of applications for intelligent instruments, enhanced networks, Internet use, virtual private networks, and integration of control systems with the main networks used by management, all of which operate in a linked global environment. Topics covered include: Advances in new displays, which help operators to more quickly assess and respond to plant conditions Software and networks that help monitor, control, and optimize industrial processes, to determine the efficiency, energy consumption, and profitability of operations Strategies to counteract changes in market conditions and energy and raw material costs Techniques to fortify the safety of plant operations and the security of digital communications systems This volume explores why the holistic approach to integrating process and enterprise networks is convenient and efficient, despite associated problems involving cyber and local network security, energy conservation, and other issues. It shows how firewalls must separate the business (IT) and the operation (automation technology, or AT) domains to guarantee the safe function of all industrial plants. This book illustrates how these concerns must be addressed using effective technical solutions and proper management policies and practices. Reinforcing the fact that all industrial control systems are, in general, critically interdependent, this handbook provides a wide range of software application examples from industries including: automotive, mining, renewable energy, steel, dairy, pharmaceutical, mineral processing, oil, gas, electric power, utility, and nuclear power. Entrepreneurship and Business Development in the Renewable Energy Sector Feb 09 2022 The need for clean sources of energy has increased dramatically as the realities of climate change have begun to effect life on earth. As a result, the demand for pioneering businesses in the

sustainable energy industry will increase. Entrepreneurship and Business Development in the Renewable Energy Sector is a critical scholarly resource that examines the growing industry of clean energy as an opportunity to create and expand enterprises, as well as discusses the need for entrepreneurial thinking in this new and growing market. Featuring coverage on a broad range of topics such as corporate entrepreneurship, business growth cycles, and photovoltaic energy, this book is geared towards academicians, researchers, and professionals seeking current research on the expanding economic market of clean energy.

SCADA Security - What's broken and how to fix it Oct 05 2021 Modern attacks routinely breach SCADA networks that are defended to IT standards. This is unacceptable. Defense in depth has failed us. In "SCADA Security" Ginter describes this failure and describes an alternative. Strong SCADA security is possible, practical, and cheaper than failed, IT-centric, defense-in-depth. While nothing can be completely secure, we decide how high to set the bar for our attackers. For important SCADA systems, effective attacks should always be ruinously expensive and difficult. We can and should defend our SCADA systems so thoroughly that even our most resourceful enemies tear their hair out and curse the names of our SCADA systems' designers.

The Art of Support Feb 21 2023 Are you a customer success or support executive curious about adapting industry best practices to your organization? Are you a newly-promoted customer success or support manager with plenty of ideas, but not much management experience? Or are you an executive with no hands-on experience with customer success, but wanting to learn more about how to decrease churn and improve revenue expansion from existing customers? The Art of Support is a practical guide for managers and executives that answers your questions. In it, you will find:

- Best practices for customer success and support, from designing customer lifecycle journeys, to managing day-to-day activities, to measuring results.
- Nuanced recommendations to build or improve your organization.
- Dozens of practical tools you can use right away such as customer scorecards, sample support portfolios, hiring checklists, decision trees for selecting support models, job ladders, and budget templates.

The Frackers Oct 25 2020 "A lively, exciting, and definitely thought-provoking book." —Booklist Things looked grim for American energy in 2006, but a handful of wildcatters were determined to tap massive deposits of oil and gas that giants like Exxon and Chevron had ignored. They risked everything on a new process called fracking. Within a few years, they solved America's dependence on imported energy, triggered a global environmental controversy, and made and lost astonishing fortunes. No one understands the frackers—their ambitions, personalities, and foibles—better than Wall Street Journal reporter Gregory Zuckerman. His exclusive access drives this dramatic narrative, which stretches from North Dakota to Texas to Wall Street.

MATLAB Graphical Programming Nov 06 2021 MATLAB enables you to work with its graphics capabilities in almost all areas of the

experimental sciences and engineering. The commands that MATLAB implements in job related graphics are quite useful and are very efficient. MATLAB has functions for working with two-dimensional and three-dimensional graphics, statistical graphs, curves and surfaces in explicit, implicit, parametric and polar coordinates. It also works perfectly with twisted curves, surfaces, volumes and graphical interpolation. MATLAB Graphical Programming addresses all these issues by developing the following topics: This book is a reference designed to give you a simple syntax example of the commands and to graph it so that you can see the result for:

Practical Customer Success Management Apr 30 2021 "This book contains so much common sense that my neck was getting tired from nodding my head in agreement so often." Peter Armaly, Senior Director Customer Success, Oracle "...a comprehensive review of the Customer Success role and responsibilities..." Anne Marie Ponder, Senior Manager, IT Infrastructure, Astellas Pharma US "...a must read playbook for all business leaders and customer success-focused professionals." Jason Noble, Global Customer Success and SaaS Leader "I wish a book like this existed when I started in Customer Success!" Cyn Taylor, Enterprise Customer Success Manager, LogicMonitor "...provides all the ingredients to create the right customer success strategy." Baptiste Debever, Head of Growth & Co Founder, Alkalab "...an invaluable resource for anyone with an interest in Customer Success." Adam Joseph, CEO, CSM insight "A structured and logical approach that will help new and experienced CSMs to bridge the gap between Customer Success theory and practical application." James Scott, General Partner, Success Hacker Customer success management is "the practice of helping customers to generate value from using our products" and it is a relatively new and fast-growing profession with many new CSMs coming into it from other customer-facing professions. Due to the speed with which the profession is undergoing change as it matures and expands, both new and existing CSMs need to keep abreast of customer success best practice. However there are relatively few books that provide much in the way of practical guidance for customer success practitioners and even less options for resources such as tools, templates and checklists that enable a consistently high quality approach whilst increasing the CSM's productivity. Practical Customer Success Management is a practical guide book and comprehensive training manual for CSMs that provides a simple to follow, best practice framework that lays out the core steps at every stage of the customer journey to business outcome success. It describes and explains which situations each step applies to and provides recommendations for activities or tasks that the CSM can perform to complete each step, together with detailed guidance for successfully completing those activities. The book also includes a suite of tools and templates that enable rapid completion of tasks whilst ensuring consistency of approach both across multiple customer engagements and by multiple CSMs within a team.

In Pursuit of the Perfect Plant Sep 04 2021 The authors assemble more than 100 experts,

whose ideas were distilled into a simple, easy-to-read story that provides an expansive view of manufacturing.

JMP for Mixed Models Aug 03 2021 Discover the power of mixed models with JMP and JMP Pro. Mixed models are now the mainstream method of choice for analyzing experimental data. Why? They are arguably the most straightforward and powerful way to handle correlated observations in designed experiments. Reaching well beyond standard linear models, mixed models enable you to make accurate and precise inferences about your experiments and to gain deeper understanding of sources of signal and noise in the system under study. Well-formed fixed and random effects generalize well and help you make the best data-driven decisions. JMP for Mixed Models brings together two of the strongest traditions in SAS software: mixed models and JMP. JMP's groundbreaking philosophy of tight integration of statistics with dynamic graphics is an ideal milieu within which to learn and apply mixed models, also known as hierarchical linear or multilevel models. If you are a scientist or engineer, the methods described herein can revolutionize how you analyze experimental data without the need to write code. Inside you'll find a rich collection of examples and a step-by-step approach to mixed model mastery. Topics include: Learning how to appropriately recognize, set up, and interpret fixed and random effects Extending analysis of variance (ANOVA) and linear regression to numerous mixed model designs Understanding how degrees of freedom work using Skeleton ANOVA Analyzing randomized block, split-plot, longitudinal, and repeated measures designs Introducing more advanced methods such as spatial covariance and generalized linear mixed models Simulating mixed models to assess power and other important sampling characteristics Providing a solid framework for understanding statistical modeling in general Improving perspective on modern dilemmas around Bayesian methods, p-values, and causal inference

Industrial Network Security Apr 11 2022 As the sophistication of cyber-attacks increases, understanding how to defend critical infrastructure systems—energy production, water, gas, and other vital systems—becomes more important, and heavily mandated. Industrial Network Security, Second Edition arms you with the knowledge you need to understand the vulnerabilities of these distributed supervisory and control systems. The book examines the unique protocols and applications that are the foundation of industrial control systems, and provides clear guidelines for their protection. This how-to guide gives you thorough understanding of the unique challenges facing critical infrastructures, new guidelines and security measures for critical infrastructure protection, knowledge of new and evolving security tools, and pointers on SCADA protocols and security implementation. All-new real-world examples of attacks against control systems, and more diagrams of systems Expanded coverage of protocols such as 61850, Ethernet/IP, CIP, ISA-99, and the evolution to IEC62443 Expanded coverage of Smart Grid security New coverage of signature-based detection, exploit-

based vs. vulnerability-based detection, and signature reverse engineering

Visual Privacy Management Jun 01 2021

Privacy is a burden for most organizations, the more complex and wider an organization is, the harder to manage and enforce privacy is. GDPR and other regulations on privacy impose strict constraints that must be coherently enforced, considering also privacy needs of organization and their users. Furthermore, organizations should allow their users to express their privacy needs easily, even when the process that manages users' data is complex and involves multiple organizations. Many research work consider the problem using simplistic examples, with solutions proposed that never actually touch pragmatic problems of real, large organizations, with thousands of users and terabytes of personal and sensitive data. This book faces the privacy management problem targeting actual large organizations, such as public administrations, including stakeholders in the process of definition of the solution and evaluating the results with its actual integration in four large organizations. The contribution of this book is twofold: a privacy platform that can be customized and used to manage privacy in large organizations; and the process for the design of such a platform, from a state-of-the-art survey on privacy regulations, through the definition of its requirements, its design and its architecture, until the evaluation of the platform.

Writing Real Programs in DCL Dec 15 2019

Newly revised and updated, this second edition will help OpenVMS programmers make an intelligent choice between DCL and more conventional programming languages. In addition, it offers a programming language to computers users who are not conversant with conventional languages.

IoT Inc: How Your Company Can Use the Internet of Things to Win in the Outcome Economy Aug 23 2020

Grab the top spot in your industry by seizing the power of IoT Smart products are everywhere. They're in our companies, in our homes, in our pockets. People love these products. But what they love more is what these products do—and for anyone running a business today, outcomes are the key. The Internet of Things (IoT) is the point of connection between products and the results they deliver—it's where products become software. IoT Inc. explains everything you need to know to position your company within this powerful new network. And once you do, you'll leave the competition in the dust. Founder and president of today's leading IoT business consulting firm, Bruce Sinclair has been helping companies develop IoT strategies for a decade—far longer than the term has even existed. This essential guide provides an in-depth look into IoT—how it works and how it is transforming business; methods for seeing your own business, customers, and competitors through the lens of IoT, and a deep dive into how to develop and implement a powerful IoT strategy. IoT isn't a new business trend. It's the new way of business. Period. The IoT wave is heading for your industry. You can either meet it head-on, and ride it to success, or you can turn your back and let it swamp you. This is your playbook for transforming your company into a major player in the IoT Outcome economy.

WSO2 Developer's Guide Nov 25 2020 WSO2 Made Simple – dive deep into the core concepts of WSO2 to overcome the challenges faced while using the Enterprise Integrator About This Book Design, create, and publish services in the WSO2 technology Integrate the WSO2 Enterprise Integrator with other components and servers Log and test deployed services Who This Book Is For If you are a Java solutions architect or developer and are keen to understand how to build enterprise applications with WSO2, this book is for you. No prior knowledge of WSO2 is expected. What You Will Learn Configure WSO2 Enterprise Integrator server in a production environment Create SOAP Proxies and REST APIs Interact with WSO2 Message Broker Write services using the new language: Ballerina Schedule automatic tasks for the services you create Manage log messages depending on the log level of the system Integrate with social networks such as Twitter, Facebook, Instagram, and Yammer Test SOAP Services using the TryIt feature and SoapUI tool Work with Quality of Services In Detail WSO2 Enterprise Integrator brings together the most powerful servers provided by the WSO2 company for your SOA infrastructure. As an Enterprise Service Bus (ESB), WSO2 Enterprise Integrator provides greater flexibility and agility to meet growing enterprise demands, whereas, as a Data Services Server (DSS), it provides an easy-to-use platform for integrating data stores, creating composite views across different data sources, and hosting data services. Using real-world scenarios, this book helps you build a solid foundation in developing enterprise applications with powerful data integration capabilities using the WSO2 servers. The book gets you started by brushing up your knowledge about SOA architecture and how it can be implemented through WSO2. It will help build your expertise with the core concepts of ESB such as building proxies, sequences, endpoints, and how to work with these in WSO2. Going further, you will also get well-acquainted with DSS data service concepts such as configuring data services, tasks, events, testing, and much more. The book will also cover API management techniques. Along with ESB and DSS, you will also learn about business process servers, the rules server and other components that together provide the control and robustness your enterprise applications will need. With practical use cases, the book covers typical daily scenarios you will come across while using these servers to give you hands-on experience. Style and approach The book is a complete guide and helps you get the right start—from understanding SOA architectures to getting valuable experience with two important integration servers such as ESB and DSS. It will include some real-world practical scenarios to help you master the best practices followed right across the industry and overcome the challenges you're likely to face on a daily basis.

Chemical Engineering Apr 18 2020

The performance manager : proven strategies for turning information into higher business performance Oct 17 2022

The Collaborative Organization: A Strategic Guide to Solving Your Internal Business Challenges Using Emerging Social and Collaborative Tools Nov 13 2019 Combining

case studies and the authors own extensive research, The Collaborative Organization presents a strategic approach to building, implementing, and using social and collaborative technologies, such as those created by companies like Jive and Yammer, to create innovative products, solve business problems, and create new processes that will foster lasting success and growth. It shows how social tools can be used within the enterprise instead of just for brand-to-consumer interactions.

Flexible Product Development Sep 16 2022

In this landmark book, Preston Smith attributes the recent decline in innovation to pressure from financial markets that drives management toward rigid development approaches such as phased development processes, Six Sigma, and project office. These processes have unintentionally (but effectively) made changes during development more difficult, disruptive, and expensive, while the need for change continues at an accelerating pace. Flexible Product Development is a hands-on resource that provides the tools and strategies needed to restore flexibility to any organization and remove the obstacles that stand in the way of responsive new product development. Preston Smith introduces approaches that can enhance development process flexibility by creating and maintaining development options, delaying decisions, and, in general, reducing the cost of change. Step-by-step, he explains the basics of flexible product development, provides a broad array of flexibility-enhancing tools, and guides the reader in modifying the organization's values to embrace this new way of operating.

Hands-On Industrial Internet of Things Nov 18 2022

Build a strong and efficient IoT infrastructure at industrial and enterprise level by mastering Industrial IoT network Key Features Gain hands-on experience working with industrial architecture Explore the potential of cloud-based Industrial IoT platforms, analytics, and protocols Improve business models and transform your workforce with Industry 4.0 Book Description We live in an era where advanced automation is used to achieve accurate results. To set up an automation environment, you need to first configure a network that can be accessed anywhere and by any device. This book is a practical guide that helps you discover the technologies and use cases for Industrial Internet of Things (IIOT). Hands-On Industrial Internet of Things takes you through the implementation of industrial processes and specialized control devices and protocols. You'll study the process of identifying and connecting to different industrial data sources gathered from different sensors. Furthermore, you'll be able to connect these sensors to cloud network, such as AWS IoT, Azure IoT, Google IoT, and OEM IoT platforms, and extract data from the cloud to your devices. As you progress through the chapters, you'll gain hands-on experience in using open source Node-Red, Kafka, Cassandra, and Python. You will also learn how to develop streaming and batch-based Machine Learning algorithms. By the end of this book, you will have mastered the features of Industry 4.0 and be able to build stronger, faster, and more reliable IoT infrastructure in your Industry. What you will learn Explore industrial processes, devices, and protocols Design and

implement the I-IoT network flow Gather and transfer industrial data in a secure way Get to grips with popular cloud-based platforms Understand diagnostic analytics to answer critical workforce questions Discover the Edge device and understand Edge and Fog computing Implement equipment and process management to achieve business-specific goals Who this book is for If you're an IoT architect, developer, or stakeholder working with architectural aspects of Industrial Internet of Things, this book is for you.

Gas Turbines for Electric Power Generation Jun 13 2022 Everything you wanted to know about industrial gas turbines for electric power generation in one source with hard-to-find, hands-on technical information.

A World Trade-Import-Export Business-Job Guide Jul 22 2020 This book contains contact information for business, trade and jobs in most countries particularly the big ones: United States China Japan Germany United Kingdom Canada France India There are a lot of free trade agreements like NAFTA (North America Free Trade Agreement) and GATT (General Agreement on Trades and Tariffs) which has made free trade easy, especially among the members of the WTO but there is still paperwork involved when bringing commercial goods across borders because many countries put forth the idea or illusion that they're protecting their economies from world trade but in truth we're a globalized world. There is only one country called the world. It gets more interdependent everyday. China doesn't want a war with United States because they owe them a lot of money which would immediately be nullified if war is declared. I just heard on the news that this month's trade deficit for the U.S. IS 80 billion dollars. That's 80 billion dollars more of stuff coming in than going out. As I say below, I lived through the pre-free trade days. There was a time when we were prosperous when we made most of the things we used. Young people nowadays don't have an idea of a golden age when you could get a job pretty well anywhere you wanted because there were factories all over the place. The 56 volumes on world trade are as follows: Volume 1. The Spirit of World Business Volume 2. A Global Marketing Guide Volume 3. A Worldwide Etiquette Guide Volume 4. The Process of Buying and Selling Worldwide Volume 5. A Customs Broker/ Freight Forwarder Guide Volume 6. Sending Things Worldwide Volume 7. A Worldwide Shipping-Cargo Guide Volume 8. The Product Speculator: Finding Products to Sell Volume 9. A Wholesale-Closeout Product Guide Volume 10. A Medical-Pharmaceutical Sales Guide Volume 11. Goods and Services to Sell at dmoz-odp Business Consumer_Goods_and_Services Volume 12. Big General Merchandise Websites at dmoz-odp Business Wholesale_Trade Volume 13. Wholesale Websites at dmoz-odp Business Wholesale_Trade Volume 14. Industrial Goods and Services Websites at dmoz-odp Industrial_Goods_and_Services Volume 15. An Outsourcing (Subcontracting) Guide: Hire Others to do Paperwork, Manufacturing, etc. Volume 16. A Smalltime Outsourcing Guide: Hire a Virtual Assistant or a Secretary Online Volume 17. A World Law Guide Volume 18. A Worldwide Business School Guide Volume 19. A World Business Job Guide Volume 20. A

Multinational Corporation ...
Encyclopedia of Sustainable Technologies Sep 23 2020 Encyclopedia of Sustainable Technologies provides an authoritative assessment of the sustainable technologies that are currently available or in development. Sustainable technology includes the scientific understanding, development and application of a wide range of technologies and processes and their environmental implications. Systems and lifecycle analyses of energy systems, environmental management, agriculture, manufacturing and digital technologies provide a comprehensive method for understanding the full sustainability of processes. In addition, the development of clean processes through green chemistry and engineering techniques are also described. The book is the first multi-volume reference work to employ both Life Cycle Analysis (LCA) and Triple Bottom Line (TBL) approaches to assessing the wide range of technologies available and their impact upon the world. Both approaches are long established and widely recognized, playing a key role in the organizing principles of this valuable work. Provides readers with a one-stop guide to the most current research in the field Presents a grounding of the fundamentals of the field of sustainable technologies Written by international leaders in the field, offering comprehensive coverage of the field and a consistent, high-quality scientific standard Includes the Life Cycle Analysis and Triple Bottom Line approaches to help users understand and assess sustainable technologies

Modern Gas Turbine Systems Oct 13 2019 Modern gas turbine power plants represent one of the most efficient and economic conventional power generation technologies suitable for large-scale and smaller scale applications. Alongside this, gas turbine systems operate with low emissions and are more flexible in their operational characteristics than other large-scale generation units such as steam cycle plants. Gas turbines are unrivalled in their superior power density (power-to-weight) and are thus the prime choice for industrial applications where size and weight matter the most. Developments in the field look to improve on this performance, aiming at higher efficiency generation, lower emission systems and more fuel-flexible operation to utilise lower-grade gases, liquid fuels, and gasified solid fuels/biomass. Modern gas turbine systems provides a comprehensive review of gas turbine science and engineering. The first part of the book provides an overview of gas turbine types, applications and cycles. Part two moves on to explore major components of modern gas turbine systems including compressors, combustors and turbogenerators. Finally, the operation and maintenance of modern gas turbine systems is discussed in part three. The section includes chapters on performance issues and modelling, the maintenance and repair of components and fuel flexibility. Modern gas turbine systems is a technical resource for power plant operators, industrial engineers working with gas turbine power plants and researchers, scientists and students interested in the field. Provides a comprehensive review of gas turbine systems and fundamentals of a cycle Examines the major components of modern systems, including compressors, combustors and

turbines Discusses the operation and maintenance of component parts

Toyota Production System May 20 2020 The Just-in-time (JIT) manufacturing system is an internal system in use by its founder, Toyota Motor Corporation, but it has taken on a new look. Toyota Production System, Second Edition systematically describes the changes that have occurred to the most efficient production system in use today. Since the publication of the first edition of this book in 1983, Toyota has integrated JIT with computer integrated manufacturing technology and a strategic information system. The JIT goal of producing the necessary items in the necessary quantity at the necessary time is an internal driver of production and operations management. The addition of computer integrated technology (including expert systems by artificial intelligence) and information systems technology serve to further reduce costs, increase quality, and improve lead time. The new Toyota production system considers how to adapt production schedules to the demand changes in the marketplace while satisfying the goals of low cost, high quality, and timely delivery. The first edition of this book, Toyota Production System, published in 1983, is the basis for this book. It was translated into many languages including Spanish, Russian, Italian, Japanese, etc., and has played a definite role in inspiring production management systems throughout the world.

Manufacturing Performance Management using SAP OEE Dec 07 2021 Learn how to configure, implement, enhance, and customize SAP OEE to address manufacturing performance management. Manufacturing Performance Management using SAP OEE will show you how to connect your business processes with your plant systems and how to integrate SAP OEE with ERP through standard workflows and shop floor systems for automated data collection. Manufacturing Performance Management using SAP OEE is a must-have comprehensive guide to implementing SAP OEE. It will ensure that SAP consultants and users understand how SAP OEE can offer solutions for manufacturing performance management in process industries. With this book in hand, managing shop floor execution effectively will become easier than ever. Authors Dipankar Saha and Mahalakshmi Symsunder, both SAP manufacturing solution experts, and Sumanta Chakraborty, product owner of SAP OEE, will explain execution and processing related concepts, manual and automatic data collection through the OEE Worker UI, and how to enhance and customize interfaces and dashboards for your specific purposes. You'll learn how to capture and categorize production and loss data and use it effectively for root-cause analysis. In addition, this book will show you: Various down-time handling scenarios. How to monitor, calculate, and define standard as well as industry-specific KPIs. How to carry out standard operational analytics for continuous improvement on the shop floor, at local plant level using MII and SAP Lumira, and also global consolidated analytics at corporation level using SAP HANA. Steps to benchmark manufacturing performance to compare similar manufacturing plants' performance, leading to a more efficient and

effective shop floor. Manufacturing Performance Management using SAP OEE will provide you with in-depth coverage of SAP OEE and how to effectively leverage its features. This will allow you to efficiently manage the manufacturing process and to enhance the shop floor's overall performance, making you the sought-after SAP OEE expert in the organization. What You Will Learn Configure your ERP OEE add-on to build your plant and global hierarchy and relevant master data and KPIs Use the SAP OEE standard integration (SAP OEEINT) to integrate your ECC and OEE system to establish bi-directional integration between the enterprise and the shop floor Enable your shop floor operator on the OEE Worker UI to handle shop floor production execution Use SAP OEE as a tool for measuring manufacturing performance Enhance and customize SAP OEE to suit your specific requirements Create local plant-based reporting using SAP Lumira and MII Use standard SAP OEE HANA analytics Who This Book Is For SAP MII, ME, and OEE consultants and users who will implement and use the solution.

Emerging Technologies Mar 10 2022 Emerging Technologies: A Primer for Librarians is a one-stop snapshot of emerging technologies every librarian should know about and examples that illustrate how the technologies are being used in libraries today!

SME Mineral Processing and Extractive Metallurgy Handbook Feb 15 2020 This landmark publication distills the body of knowledge that characterizes mineral processing and extractive metallurgy as disciplinary fields. It will inspire and inform current and future generations of minerals and metallurgy professionals. Mineral processing and extractive metallurgy are atypical disciplines, requiring a combination of knowledge, experience, and art. Investing in this trove of valuable information is a must for all those involved in the industry—students, engineers, mill managers, and operators. More than 192 internationally recognized experts have contributed to the handbook's 128 thought-provoking chapters that examine nearly every aspect of mineral processing and extractive metallurgy. This inclusive reference addresses the magnitude of traditional industry topics and also addresses the new technologies and important cultural and social issues that are important today. Contents Mineral Characterization and Analysis Management and Reporting Comminution Classification and Washing Transport and Storage Physical Separations Flotation Solid and Liquid Separation Disposal Hydrometallurgy Pyrometallurgy Processing of Selected Metals, Minerals, and Materials

Synchronized Phasor Measurements and Their Applications Jul 02 2021 This book provides an account of the field of synchronized Phasor Measurement technology, its beginning, its technology and its principal applications. It covers wide Area Measurements (WAM) and their applications. The measurements are done using GPS systems and eventually will replace the existing technology. The authors created the field about twenty years ago and most of the installations planned or now in existence around the world are based on their work.

Official Gazette of the United States Patent and

Trademark Office Mar 30 2021

Internet of Things (IoT) A Quick Start Guide Dec 19 2022 Explore IoT Architecture, Design, and its Implementation KEY FEATURES ● Comprehensive overview of frameworks, protocols, networks, security, and privacy of IoT. ● Covers innovative IoT use cases and industry-wide application areas. ● Includes case studies to demonstrate IoT principles and practices. DESCRIPTION Internet of Things (IoT) A Quick Start Guide explains the architecture, design, and implementation of IoT. The book charts a path where none exists and introduces readers to the ethical and responsible development of IoT solutions. The book begins with the history of IoT, followed by chapters on architectures, networks, and protocols in both software and hardware. The book reveals the next level of IoT framework knowledge, such as ThingWorx and Salesforce Thunder. This book places equal emphasis on a wide range of security and privacy aspects, including Zero Trust Approaches, Forensics, Access Control Lists, and Public Key Infrastructure. Wearables, Industry 4.0, Workplace Analytics, and Product Asset Management are just a few of the applications and use cases that are discussed.

Transformative trends such as Augmented Analytics, AR/VR, Digital Twins, and many more are also discussed in the book. After reading this book, readers will get a broad spectrum of knowledge of IoT. They will be able to put the guidance shared to use. WHAT YOU WILL LEARN ● Access to a variety of IoT application areas with compelling use cases. ● Opportunity to experiment with frameworks, tools, and platforms for various IoT assignments. ● Acquire conceptual knowledge about IoT architecture, protocols, and networks. ● Take a look at integrating IoT procedures, software, and hardware. ● Investigate how to develop a data management strategy when implementing IoT. ● Understand the policies governing IoT security, privacy, and interoperability. WHO THIS BOOK IS FOR This book is intended for IT graduates, computer engineers, and industry experts who wish to learn IoT principles, techniques, and protocols to successfully create and deploy safe and secure IoT systems. One does not need prior knowledge of IoT or programming to read this book. TABLE OF CONTENTS 1. IoT: The Basic Dynamics 2. IoT—Nuts and Bolts of the Architecture 3. Data Management Strategy 4. IoT Security, Privacy and Interoperability: What, Why, How, and What Next 5. Applications and Use Cases 6. Current and Future Trends

The Success Case Method Mar 18 2020 Each year, organizations spend millions of dollars trying out new innovations and improvements—and millions will be wasted if they can't quickly find out what's working and what is not. The Success Case Method offers a breakthrough evaluation technique that is easier, faster, and cheaper than competing approaches, and produces compelling evidence decision-makers can actually use. Because it seeks out the best stories of how real individuals have actually used innovations, The Success Case Method can ferret out success no matter how small or infrequent. It can salvage the few "gems" of success from a larger initiative that is not doing well or find out how to make a partially successful effort even more successful. The

practical methods and tools in this book can help those who initiate and foster change, including leaders, executives, managers, consultants, training directors, and anyone else who is trying to make things work better in organizations get the greatest returns for their investments.

16th European Symposium on Computer Aided Process Engineering and 9th International Symposium on Process Systems Engineering Jan 20 2023 This proceedings book brings together the leading innovations and achievements by leading professionals. It acts as a forum for engineers, scientists, researchers, managers and students from academia and industry to present and discuss progress being made in research and application of computer-aided process engineering.

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that provides practical guidance for making the thousand and one decisions needed to design effective e-learning. e-Learning by Design includes a systematic, flexible, and rapid design process covering every phase of designing e-learning. Free of academic jargon and confusing theory, this down-to-earth, hands-on book is filled with hundreds of real-world examples and case studies from dozens of fields. "Like the book's predecessor (Designing Web-based Training), it deserves four stars and is a must read for anyone not selling an expensive solution. -- From Training Media Review, by Jon Aleckson, www.tnreview.com, 2007

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