

Sap Plant Connectivity Pco Meets Sap Ewm Material Flow

How did social communication evolve in primates? In this volume, primatologists, linguists, anthropologists, cognitive scientists and philosophers of science systematically analyze how their specific disciplines demarcate the research questions and methodologies involved in the study of the evolutionary origins of social communication in primates in general and in humans in particular. In the first part of the book, historians and philosophers of science address how the epistemological frameworks associated with primate communication and language evolution studies have changed over time and how these conceptual changes affect our current studies on the subject matter. In the second part, scholars provide cutting-edge insights into the various means through which primates communicate socially in both natural and experimental settings. They examine the behavioral building blocks by which primates communicate and they analyze what the cognitive requirements are for displaying communicative acts. Chapters highlight cross-fostering and language experiments with primates, primate mother-infant communication, the display of emotions and expressions, manual gestures and vocal signals, joint attention, intentionality and theory of mind. The primary focus of the third part is on how these various types of communicative behavior possibly evolved and how they can be understood as evolutionary precursors to human language. Leading scholars analyze how both manual and vocal gestures gave way to mimetic and imitational protolanguage and how the latter possibly transitioned into human language. In the final part, we turn to the hominin lineage, and anthropologists, archeologists and linguists investigate what the necessary neurocognitive, anatomical and behavioral features are in order for human language to evolve and how language differs from other forms of primate communication.

Marking the change in focus of tree genomics from single species to comparative approaches, this book covers biological, genomic, and evolutionary aspects of angiosperm trees that provide information and perspectives to support researchers broadening the focus of their research. The diversity of angiosperm trees in morphology, anatomy, physiology and biochemistry has been described and cataloged by various scientific disciplines, but the molecular, genetic, and evolutionary mechanisms underlying this diversity have only recently been explored. Excitingly, advances in genomic and sequencing technologies are ushering a new era of research broadly termed comparative genomics, which simultaneously exploits and describes the evolutionary origins and genetic regulation of traits of interest. Within tree genomics, this research is already underway, as the number of complete genome sequences available for angiosperm trees is increasing at an impressive pace and the number of species for which RNAseq data are available is rapidly expanding. Because they are extensively covered by other literature and are rapidly changing, technical and computational approaches—such as the latest sequencing technologies—are not a main focus of this book. Instead, this comprehensive volume provides a valuable, broader view of tree genomics whose relevance will outlive the particulars of current-day technical approaches. The first section of the book discusses background on the evolution and diversification of angiosperm trees, as well as offers description of the salient features and diversity of the unique physiology and wood anatomy of angiosperm trees. The second section explores the two most advanced model angiosperm tree species (poplars and eucalypts) as well as species that are soon to emerge as new models. The third section describes the structural features and evolutionary histories of angiosperm tree genomes, followed by a fourth section focusing on the genomics of traits of biological, ecological, and economic interest. In summary, this book is a timely and well-referenced foundational resource for the forest tree community looking to embrace comparative approaches for the study of angiosperm trees.

Grab this amazing Ouroboros Notebook for yourself or someone who's interested in space exploration and science fiction stories. The paperback notebook consists of 120 pages, size 6x9 inches.- 6x9 Notebook- 120 Pages Count- Paperback Cover

Motivation for This Book The OPC Foundation provides specifications for data exchange in industrial automation. There is a long history of COM/DCOM-based specifications, most prominent OPC Data Access (DA), OPC Alarms and Events (A&E), and OPC Historical Data Access (HDA), which are widely accepted in the industry and implemented by almost every system targeting industrial automation. Now the OPC Foundation has released a new generation of OPC specifications called OPC Unified Architecture (OPC UA). With OPC UA, the OPC Foundation fulfills a technology shift from the retiring COM/DCOM technology to a service-oriented architecture providing data in a platform-independent manner via Web Services or its own optimized TCP-based protocol. OPC UA unifies the previous specifications into one single address space capable of dealing with current data, alarms and events and the history of current data as well as the event history. A remarkable enhancement of OPC UA is the Address Space Model by which vendors can expose a rich and extensible information model using object-oriented techniques. OPC UA scales well from intelligent devices, controllers, DCS, and SCADA systems up to MES and ERP systems. It also scales well in its ability to provide information; on the lower end, a model similar to Classic OPC can be used, providing only base information, while at the upper end, highly sophisticated models can be described, providing a large amount of metadata including complex type hierarchies.

How to design a world in which we rely less on stuff, and more on people. We're filling up the world with technology and devices, but we've lost sight of an important question: What is this stuff for? What value does it add to our lives? So asks author John Thackara in his new book, *In the Bubble: Designing for a Complex World*. These are tough questions for the pushers of technology to answer. Our economic system is centered on technology, so it would be no small matter if "tech" ceased to be an end-in-itself in our daily lives. Technology is not going to go away, but the time to discuss the end it will serve is before we deploy it, not after. We need to ask what purpose will be served by the broadband communications, smart materials, wearable computing, and connected appliances that we're unleashing upon the world. We need to ask what impact all this stuff will have on our daily lives. Who will look after it, and how? *In the Bubble* is about a world based less on stuff and more on people. Thackara describes a transformation that is taking place now—not in a remote science fiction future; it's not about, as he puts it, "the schlock of the new" but about radical innovation already emerging in daily life. We are regaining respect for what people can do that technology can't. *In the Bubble* describes services designed to help people carry out daily activities in new ways. Many of these services involve technology—ranging from body implants to wide-bodied jets. But objects and systems play a supporting role in a people-centered world. The design focus is on services, not things. And new principles—above all, lightness—inform the way these services are designed and used. At the heart of *In the Bubble* is a belief, informed by a wealth of real-world examples, that ethics and responsibility can inform design decisions without impeding social and technical innovation.

Original studies address key aspects of the conservation and biodiversity of plants. Articles are all peer-reviewed primary research papers, contributed by leading biodiversity researchers from around the world. Collectively, these articles provide a snapshot of the major issues and activities in global plant conservation. Many of the articles can serve as excellent case studies for courses in ecology, restoration, biodiversity, and conservation.

Originally published in 1989, *Karst Geomorphology and Hydrology* became the leading textbook on karst studies. This new textbook has been substantially revised and updated. The first half of the book is a systematic presentation of the dissolution kinetics, chemical equilibria and physical flow laws relating to karst environments. It includes details of the many environmental factors that complicate their chemical evolution, with a critique of measurement of karst erosion rates. The second half of the book looks at the classification system for cave systems and the influence of climate and climatic change on

karst development. The book ends with chapters on karst water resource management and a look at the important issues of environmental management, including environmental impact assessment, environmental rehabilitation, tourism impacts and conservation values. Practical application of karst studies are explained throughout the text. "This new edition strengthens the book's position as the essential reference in the field. Karst geoscientists will not dare to stray beyond arm's reach of this volume. It is certain to remain the professional standard for many decades." Journal of Cave and Karst Studies, August 2007

Smart (intelligent) structures have been the focus of a great deal of recent research interest. In this book, leading researchers report the state of the art and discuss new ideas, results and trends in 43 contributions, covering fundamental research issues, the role of intelligent monitoring in structural identification and damage assessment, the potential of automatic control systems in achieving a desired structural behaviour, and a number of practical issues in the analysis and design of smart structures in mechanical and civil engineering applications. Audience: A multidisciplinary reference for materials scientists and engineers in such areas as mechanical, civil, aeronautical, electrical, control, and computer engineering.

This book presents a comprehensive overview and analysis of mangrove ecological processes, structure, and function at the local, biogeographic, and global scales and how these properties interact to provide key ecosystem services to society. The analysis is based on an international collaborative effort that focuses on regions and countries holding the largest mangrove resources and encompasses the major biogeographic and socio-economic settings of mangrove distribution. Given the economic and ecological importance of mangrove wetlands at the global scale, the chapters aim to integrate ecological and socio-economic perspectives on mangrove function and management using a system-level hierarchical analysis framework. The book explores the nexus between mangrove ecology and the capacity for ecosystem services, with an emphasis on thresholds, multiple stressors, and local conditions that determine this capacity. The interdisciplinary approach and illustrative study cases included in the book will provide valuable resources in data, information, and knowledge about the current status of one of the most productive coastal ecosystems in the world.

Examines "reachback"--the use of contracting capability outside of the theater of operations to accomplish contracting tasks for customers in-theater--as a potential means for reducing the deployment burden on military contracting personnel. The authors find that reachback might improve performance in some areas and has the potential to reduce deployments, but other issues also need to be addressed to reduce stress on the contracting career field.

Manufacturing Performance Management using SAP OEE Implementing and Configuring Overall Equipment Effectiveness Apress

This book describes the intrinsic factors of IT Operation and its set-up during the software implementation phase. Based on the author's long-term experience in managing IT for more than 100 clients over nearly 25 years, the book examines the needed knowledge and execution management capabilities to implement and run IT environments successfully for all sizes of enterprises. Many real-world examples provide insight into typical IT challenges and recipes to turn common pitfalls of implementation and operation into best practices. In order to dominate information technology and not be dominated by it, readers will understand how to identify the most common risk factors during implementations and how to initiate successful risk-mitigation measures. The goal of this book is to arm the reader to completely prevent The 5 Pitfalls of Software Implementation by using the right programmatic design and execution. After an introduction to the book, individual chapters examine the vision of a Perfect IT and how Design Thinking and innovation contributes to it. The core chapters convey The Five Pitfalls of Software Implementation, including Underestimation of System Performance Issues, Weak Program Governance and Leadership, and Operational Un-Readiness. The challenges surrounding implementations of cloud applications, are presented separately. Final chapters describe the preparation of the IT Operation along with a number of dos and don'ts (i.e. 'Best Practices' and 'Worst Practices'). The book concludes by presenting some Digital Strategies of companies, to dominate information technology.

Water acquisition, storage, allocation and distribution are intensely contested in our society, whether, for instance, such issues pertain to a conflict between upstream and downstream farmers located on a small stream or to a large dam located on the border of two nations. Water conflicts are mostly studied as disputes around access to water resources or the formulation of water laws and governance rules. However, explicitly or not, water conflicts nearly always also involve disputes among different philosophical views. The contributions to this edited volume have looked at the politics of contested knowledge as manifested in the conceptualisation, design, development, implementation and governance of large dams and mega-hydraulic infrastructure projects in various parts of the world. The special issue has explored the following core questions: Which philosophies and claims on mega-hydraulic projects are encountered, and how are they shaped, validated, negotiated and contested in concrete contexts? Whose knowledge counts and whose knowledge is downplayed in water development conflict situations, and how have different epistemic communities and cultural-political identities shaped practices of design, planning and construction of dams and mega-hydraulic projects? The contributions have also scrutinised how these epistemic communities interactively shape norms, rules, beliefs and values about water problems and solutions, including notions of justice, citizenship and progress that are subsequently to become embedded in material artefacts.

Leverage the flexibility and power of SAP MII to integrate your business operations with your manufacturing processes. You'll explore important new features of the product and see how to apply best practices to connect all the stakeholders in your business. This book starts with an overview of SAP's manufacturing integration and intelligence application and explains why it is so important. You'll then see how it is applied in various manufacturing sectors. The biggest challenge in manufacturing industries is to reduce the manual work and human intervention so that the process becomes automatic. SAP MII explains how to bridge the gap between management and production and bring sound vital information to the shop floor in real time. With this book you'll see how to ensure existing manufacturing and information systems share a common interface for all users in your enterprise. What You'll Learn Understand the functional aspects of SAP MII Implement SAP MII in different Manufacturing sectors Explore new technical features of SAP MII 12.x Integrate scenarios with SAP MII Discover practice guidelines Who This Book is for All levels of SAP manufacturing professionals.

Coastal and estuarine environments at the interface of terrestrial and marine areas are among the most productive in the world. However, since the beginning of the industrial era, these ecosystems have been subjected to strong anthropogenic pressures intensified from the second half of the 20th century, when there was a marked acceleration in the warming (climate change) of the continents, particularly at high latitudes. Coastal ecosystems are highly vulnerable to alteration of their physical, chemical and biological characteristics (marine intrusion,

acidification of marine environments, changes in ecosystems, evolution and artificialization of the coastline, etc.). In contact with heavily populated areas, these environments are often the receptacle of a lot of chemical and biological pollution sources that significantly diminish their resilience. In this context of accelerated evolution and degradation of these areas important for food security of many populations around the world, it is necessary to better identify the factors of pressure and understand, at different scales of observation, their effects and impacts on the biodiversity and on the socio-eco-systems, in order to determine the degree of vulnerability of these coastal ecosystems and the risks they face. A transdisciplinary and integrated approach is required to prevent risks. Within this framework, operational coastal oceanography occupies an important place but also the implementation of a true socio-eco-system approach in order to set up an environmentally friendly development.

There is a growing need for appropriate management of aquatic plants in rivers and canals, lakes and reservoirs, and drainage channels and urban waterways. This management must be based on a sound knowledge of the ecology of freshwater plants, their distribution and the different forms of control available including chemical and physical, and biological and biomanipulation. This series of papers from over 20 different countries was generated from the tenth in the highly successful series of European Weed Research Society symposia on aquatic plant management, this being the tenth. It provides a valuable insight into the complexities involved in managing aquatic systems, discusses state-of-the-art control techniques and deals with patterns of regrowth and recovery post-management. Careful consideration is given to the use of chemicals, a practice which has come under scrutiny in recent years. Underpinning the development of such control techniques is a growing body of knowledge relating to the biology and ecology of water plants. The authorship of the papers represents the collective wisdom of leading scientists and experts from fisheries agencies, river authorities, nature conservation agencies, the agrochemical industry and both governmental and non-governmental organisations.

Transform your logistics operations with SAP S/4HANA! With this introduction, see what SAP has in store for each supply chain line of business: sales order management, manufacturing, inventory management, warehousing, and more. Discover how SAP Fiori apps and embedded analytics improve reporting, and explore the intersection between your supply chain processes and new SAP Leonardo technologies. Take your first look at SAP S/4HANA logistics, and see where it will take your business! a. Key Processes Advances in SAP S/4HANA are changing your supply chain. Explore planning and scheduling, transportation management, inventory management, manufacturing, warehousing, sourcing and procurement, plant maintenance, and more! b. The Future of Logistics Uncover what's new and improved in SAP S/4HANA for your logistics LOBs, such as centralized procurement to demand-driven MRP. See how technologies like IoT and machine learning can accelerate your core supply chain processes. c. Migration Once you see the logistics big picture, you can plan your next steps. Learn how to design your roadmap, evaluate your technical and functional conversion steps, and prepare your system for your desired migration path. 1) Sourcing and procurement 2) Inventory management 3) Warehouse management 4) Production planning 5) Manufacturing operations 6) Plant maintenance 7) Quality management 8) SAP Fiori applications 9) SAP Leonardo technologies 10) Implementation and migration 11) SAP S/4HANA 1809

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.

Become more culturally competent in an increasingly diverse world Recent years have seen dramatic changes to several institutions worldwide. Our increasingly interconnected, digitized, and globalized world presents immense opportunities and unique challenges. Modern businesses and schools interact with individuals and organizations from a diverse range of cultural and national backgrounds—increasing the likelihood for miscommunication, errors in strategy, and unintended consequences in the process. This has also spilled into our daily lives and the way we consume information today. Understanding how to navigate these and other pitfalls requires adaptability, nuanced cross-cultural communication, and effective conflict resolution. Use Your Difference to Make a Difference provides readers with a skills-based, actionable plan that transforms differences into agents of inclusiveness, connection, and mutual understanding. This innovative and timely guide illustrates how to leverage differences to move beyond unconscious biases, manage a culturally-diverse workplace, create an environment for more tolerant schooling environments, more trusted media, communicate across borders, find and retain diverse talent, and bridge the gap between working locally and expanding globally. Expert guidance on a comprehensive range of topics—teamwork, leadership styles, information sharing, delegation, supervision, giving and receiving feedback, coaching and motivation, recruiting, managing suppliers and customers, and more—helps you manage the essential aspects of international relationships and cultural awareness. This valuable resource contains the indispensable knowledge required to: Develop self-awareness needed to be a cross-cultural communicator Develop content, messaging techniques, marketing plans, and business strategies that translate across cultural borders Help your employees to better understand and collaborate with clients and colleagues from different backgrounds Help teachers build safe environments for students to be themselves Strengthen cross-cultural competencies in yourself, your team, and your entire organization Understand the cultural, economic, and political factors surrounding our world Use Your Difference to Make a Difference is a must-have resource for any educator, parent, leader, manager, or team member of an organization that interacts with co-workers and customers from diverse cultural backgrounds.

Genetic erosion is the loss of genetic diversity within a species. It can happen very quickly, due to catastrophic events, or changes in land use leading to habitat loss. But it can also occur more gradually and remain unnoticed for a long time. One of the main causes of genetic erosion is the replacement of local varieties by modern varieties. Other causes include environmental degradation, urbanization, and land clearing through deforestation and brush fires. In order to conserve biodiversity in plants, it is important to targets three independent levels that include ecosystems, species and genes. Genetic diversity is important to a species' fitness, long-term viability, and ability to adapt to changing environmental conditions. Chapters in this book are written by leading geneticists, molecular biologists and other specialists on relevant topics on genetic erosion and conservation genetic diversity in plants. This divisible set of two volumes deals with a broad spectrum of topics on genetic erosion, and approaches to biodiversity conservation in crop plants and trees. Volume 1 deals with indicators and prevention of genetic erosion, while volume 2 covers genetic diversity and erosion in a number of plants species. These two volumes will also be useful to botanists, biotechnologists, environmentalists, policy makers, conservationists, and NGOs working to manage genetic erosion and biodiversity.

This book is composed of a selection of articles from The 2021 World Conference on Information Systems and Technologies (WorldCIST'21), held online between 30 and 31 of March and 1

and 2 of April 2021 at Hangra de Heroismo, Terceira Island, Azores, Portugal. WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges of modern information systems and technologies research, together with their technological development and applications. The main topics covered are: A) Information and Knowledge Management; B) Organizational Models and Information Systems; C) Software and Systems Modeling; D) Software Systems, Architectures, Applications and Tools; E) Multimedia Systems and Applications; F) Computer Networks, Mobility and Pervasive Systems; G) Intelligent and Decision Support Systems; H) Big Data Analytics and Applications; I) Human-computer Interaction; J) Ethics, Computers & Security; K) Health Informatics; L) Information Technologies in Education; M) Information Technologies in Radiocommunications; N) Technologies for Biomedical Applications.

This book analyzes the common set of obstacles to the development and integration of government Information and Communication Technology (ICT) projects and effective e-government initiatives in developing countries. It draws on the expertise and experience of more developed states in the Pacific, notably Australia and New Zealand, both highly rated in global rankings for e-government and active in a variety of e-government development projects across the region. There has been a general failure to identify priorities and align projects with local needs in ICT/e-government projects. Small Island Developing States (or SIDS) present a unique problem in terms of e-government. Not only do they suffer from a common set of barriers to ICT development such as their remoteness, geographical dispersion, moist tropical climates, largely rural populations, and lack of ICT capacity and infrastructure, but are also dependent on external agencies for investment, and must negotiate with powerful donors who have conflicting agendas. E-government is widely regarded as 'transformational', increasing efficiency, productivity, accountability, economic growth, and citizen involvement. But while the governments of SIDS are committed to harnessing ICTs for effective government and economic development, they face major challenges in establishing successful e-government initiatives, due to the problems outlined above, coupled with a lack of HR capacities and appropriate strategies and policies. Drawing on the experience of the states mentioned above, as well as regional quasi-governmental bodies, nongovernmental organizations (NGOs), aid agencies, and the private sector, the book will be of interest to researchers and students in the fields of e-government, public administration, political science, communication, information science, and social media.

The FAAT List is not designed to be an authoritative source, merely a handy reference. Inclusion recognizes terminology existence, not legitimacy. Entries known to be obsolete are included because they may still appear in extant publications and correspondence.

Mobile technologies have been used in higher education for many years. They provide good solutions for teaching and learning and make learning available anywhere and anytime. This book includes six sections: design, development, adoption, collaboration, evaluation and future of mobile teaching and learning technology in higher education. It includes different projects and practices in higher education across different countries. The book provides in-depth background information and cases studies in high technology teaching and learning and future expectations for new technology in higher education. The variety of projects and programs running in different country helps boost innovation and discussion in future projects and practices. It also provide guidelines for future design and development of mobile applications for higher education.

This is a must-have, comprehensive guide to SAP Manufacturing Integration and Intelligence (SAP MII) that will teach you how to implement and configure SAP MII to fit your different manufacturing tasks and issues. With this book, you learn how to create composite applications that connect your business processes with your plant systems. And, once you know how to link your plant systems to generate comprehensive and accurate data, the authors show you how to use SAP MII tools to generate accurate reports and dashboards for analysis and real-time monitoring, leading to a more efficient and effective shop floor. 1 Administrating and Configuring SAP MII Learn to how to set up, configure, and use the various components in SAP MII to help you develop general data reports for manufacturing integration and analytics. 2 Developing MII Composite Applications Explore the SAP MII Workbench to develop content and create different types of data queries, business logic, and visualizations to manage and view plant data.3 Managing Plant Floor Integration Get an in-depth look at the integration aspects of SAP MII, including how to connect to manufacturing plant floor systems using data servers, and how to synchronize the plant floor with other parts of the enterprise. 4 Implementing SAP MII Composite Applications Find out about the different implementation scenarios, including the solution architectures and best practices to follow for developing and implementing SAP MII. 5 Tips and Tricks Throughout Discover the insider information you need for developing SAP MII composite applications through its model-based interface.

??Abiotic stress has a detrimental impact on the living organisms in a specific environment and constitutes a major constraint to global agricultural production. The adverse environmental conditions that plants encounter during their life cycle not only disturb their metabolic reactions, but also hamper their growth and development on cellular and whole plant levels. These conditions are of great concern, particularly for those countries whose economies primarily rely on agriculture. Under abiotic stresses, plants amalgamate multiple external stress cues to bring about a coordinated response and establish mechanisms to mitigate such stresses by triggering a cascade of events leading to enhanced tolerance. Physiological Mechanisms and Adaptation Strategies in Plants under Changing Environment, Volume 2 displays the ways by which plants utilize and integrate many common signals and subsequent pathways to cope with less favourable environmental conditions. The book also describes the use of contemporary tools for the improvement of plants under such stressed environments. Concise yet comprehensive, Physiological Mechanisms and Adaptation Strategies in Plants under Changing Environment, Volume 2 is an indispensable resource for researchers, students, environmentalists and many others in this burgeoning area of research.

Unpack your API toolkit with this guide to SAP API Management. Learn how to use the API Designer to create enterprise APIs and discover how to manage their lifecycle. Walk through key processes that optimize your APIs and keep them running smoothly: traffic management, mediation, security, and monetization. Get expert guidance on building applications, generating integration flows, and running analytics. Master API management from end to end In this book, you'll learn about: a. API Lifecycle Walk through API management from end to end: design, management, consumption, and more. Understand how components such as the Developer Portal and API Gateway support the API lifecycle. b. Key Processes Make the most of your APIs. See how to monitor traffic; perform message transformation, parsing, and validation; handle API security threats; and monetize API products. c. Consumption and Analytics Get your APIs working for you. Learn how to consume APIs in SAP Fiori apps, mobile apps built with SAP Mobile Services, and more. Then, analyze API consumption to gain insight into usage trends and

performance. Highlights Include: 1) Architecture 2) End-to-end lifecycle 3) Design and development 4) Traffic management 5) Mediation 6) Security 7) Monetization 8) Consumption 9) Enterprise integration 10) Analytics 11) SAP API Business Hub

This book gathers state-of-the-art research in computational engineering and bioengineering to facilitate knowledge exchange between various scientific communities. Computational engineering (CE) is a relatively new discipline that addresses the development and application of computational models and simulations often coupled with high-performance computing to solve complex physical problems arising in engineering analysis and design in the context of natural phenomena. Bioengineering (BE) is an important aspect of computational biology, which aims to develop and use efficient algorithms, data structures, and visualization and communication tools to model biological systems. Today, engineering approaches are essential for biologists, enabling them to analyse complex physiological processes, as well as for the pharmaceutical industry to support drug discovery and development programmes.

"Rapid advances in financial technology are transforming the economic and financial landscape, offering wide-ranging opportunities while raising potential risks. Fintech can support potential growth and poverty reduction by strengthening financial development, inclusion, and efficiency—but it may pose risks to consumers and investors and, more broadly, to financial stability and integrity. National authorities are keen to foster fintech's potential benefits and to mitigate its possible risks. Many international and regional groupings are now examining various aspects of fintech, in line with their respective mandates. There have been calls for greater international cooperation and guidance about how to address emerging issues, with some also cautioning against premature policy responses. In response to these calls from member countries, the IMF and the World Bank staff have developed the Bali Fintech Agenda, summarized in Annex I of this paper. The Agenda brings together and advances key issues for policymakers and the international community to consider as individual countries formulate their policy approaches. It distills these considerations into 12 elements arising from the experiences of member countries. The Agenda offers a framework for the consideration of high-level issues by individual member countries, including in their own domestic policy discussions. It does not represent the work program of the IMF or the World Bank, nor does it aim to provide specific guidance or policy advice. The Agenda will help guide the focus of IMF and World Bank staff in their work on fintech issues within their expertise and mandate, inform their dialogue with national authorities, and help shape their contributions to the work of the standard-setting bodies and other relevant international institutions on fintech issues. Implications for the work programs of the IMF and World Bank will be developed and presented to their respective Executive Boards for guidance as the nature and scope of the membership's needs—in response to the Bali Fintech Agenda—become clearer."

This book is intended for every CISO or security manager who wants to be sure in the security of his or her "crown jewels" namely Enterprise Business applications and ERP systems. If you did not hear about SAP or its cybersecurity aspects, this book is also for you. Interest in SAP security is skyrocketing and the main factor driving this concernment is a plethora of cyberattacks. As SAP systems enable all the critical business processes from procurement, payment and transport to human resources management, product management and financial planning, all data stored in SAP systems can be used in espionage, sabotage or fraud. As an example, breaches revealed in the SAP system of USIS, a government contractor, are resulted in the company's bankruptcy. Analysts from Gartner, IDC, 451 Research, KuppingerCole and Quocirca agreed on the significance of ERP security tests and lack of this functionality in traditional tools. Indeed, Gartner added Business Application Security to the Hype Cycle of Application Security in 2017 since an innovative niche, and top consulting companies have already included ERP security services in the portfolio. Are you prepared for changes and do you have qualified expertise and stable processes to address ERP security market? This book incorporates 10 years of SAP cybersecurity history. It starts with the history of SAP cybersecurity and answers to questions why and how SAP cybersecurity differs from IT security. Then the most critical risks for organizations are described. You will be able to catch the details of all SAP systems such as ABAP or HANA and their vulnerabilities supported by the real-life examples of attacks on SAP systems. Finally, the book provides guidelines on establishing processes to secure SAP systems from different angles including secure development, SoD, vulnerability management, threat detection, and anomaly user behavior. The end of this book contains an Appendix with SAP Cybersecurity Framework, a guide to SAP security that implements Gartner's approach to adaptive security architecture in ERP security realm describing four categories of SAP protection processes: predictive, preventive, detective and responsive. The Framework articulates 20 critical areas of actions, describes the desired outcomes and provides a three-step approach to succeed in each area of ERP security. The Framework is a perfect step-by-step guide on operationalizing SAP cybersecurity.

2019 Missile Defense Review - January 2019 According to a senior administration official, a number of new technologies are highlighted in the report. The review looks at "the comprehensive environment the United States faces, and our allies and partners face. It does posture forces to be prepared for capabilities that currently exist and that we anticipate in the future." The report calls for major investments from both new technologies and existing systems. This is a very important and insightful report because many of the cost assessments for these technologies in the past, which concluded they were too expensive, are no longer applicable. Why buy a book you can download for free? We print this book so you don't have to. First you gotta find a good clean (legible) copy and make sure it's the latest version (not always easy). Some documents found on the web are missing some pages or the image quality is so poor, they are difficult to read. We look over each document carefully and replace poor quality images by going back to the original source document. We proof each document to make sure it's all there - including all changes. If you find a good copy, you could print it using a network printer you share with 100 other people (typically its either out of paper or toner). If it's just a 10-page document, no problem, but if it's 250-pages, you will need to punch 3 holes in all those pages and put it in a 3-ring binder. Takes at least an hour. It's much more cost-effective to just order the latest version from Amazon.com This book includes original commentary which is copyright material. Note that government documents are in the public domain. We print these large documents as a service so you don't have to. The books are compact, tightly-bound, full-size (8 1/2 by 11 inches), with large text and glossy covers. 4th Watch Publishing Co. is a HUBZONE SDVOSB. <https://usgovpub.com>

OPC stands for Openness, Productivity, and Collaboration, symbolizing the new possibilities opening up in automation technology. The main objective of the new OPC generation Unified Architecture is to facilitate global interoperability and to define an information and data-exchange mechanism that is service oriented, multivendor, and cross-platform capable - from the field device on the shop floor to the ERP system on the factory level. This book includes information on: - the birth, objectives, and fundamentals of OPC and OPC UA, - the technical specifications

that currently exist and those that are in preparation, - the procedures for designing and implementing components, - a transparent presentation of the technology through application possibilities and examples, and - the outlook for the future of OPC and OPC UA. Important perspectives and updates in this new edition include - the new era and the exciting application possibilities developing with OPC UA, - the new OPC UA specifications, - the development of OPC products for Windows, Linux, and VxWorks, - companion standards like FDI (EDD, FDT), ADI, or PLCopen (IEC 61131-3), - new interoperability applications with SAP or Beckhoff Server embedded, and - migration strategies from Classic OPC to OPC UA. Fundamentals, implementation, and application of Classic OPC and OPC UA are discussed comprehensively in this book. CD-ROM: The included CD-ROM contains industrial OPC Server and OPC Client tools for evaluation, and also several demonstration programs for development, commissioning, testing, and for the simulation of OPC Clients and Servers. The OPC Toolbox is suitable for Windows NT/2000/XP/Vista, Windows 7, Windows CE, Linux, and VxWorks. Furthermore you will find videos and presentations of OPC UA.

As forests decline in temperate and tropical climates, highly-developed countries and those striving for greater economic and social benefits are beginning to utilize marginal forests of high-latitude and mountainous regions for resources to satisfy human needs. The benefits of marginal forests range from purely aesthetic to providing resources for producing many goods and services demanded by a growing world population. Increased demands for forest resources and amenities and recent warming of high latitude climates have generated interest in reforestation and afforestation of marginal habitats in cold regions. Afforestation of treeless landscapes improves the environment for human habitation and provides for land use and economic prosperity. Trees are frequently planted in cold climates to rehabilitate denuded sites, for the amenity of homes and villages, and for wind shelter, recreation, agroforestry, and industrial uses. In addition, forests in cold climates reduce the albedo of the earth's surface in winter, and in summer they are small but significant long-lived sinks for atmospheric carbon dioxide. Finally, growth and reproductive success of forests at their geographic limits are sensitive indices of climatic change. As efforts to adapt forests to cold climates increase, however, new afforestation problems arise and old ones intensify. Austral, northern, and altitudinal tree limits are determined by many different factors. Current hypotheses for high-latitude tree limits are based on low growing-season temperatures that inhibit plant development and reproduction.

In a world facing a growing water crisis, conflicts regarding water sharing and environmental issues are expected to grow, especially in transboundary river basins, where 40% of the world's population lives. This book represents one of the first attempts to bring together methodologies and analytical tools from socio-economic, international policy, engineering, and water management specialists dealing with transboundary water resources. The book is divided into three parts. Part I introduces state-of-the-art concepts in institutional policy and conflict analysis. Part II presents engineering approaches and models for transboundary water management and conflict resolution. Part III analyzes cases in international river basins and enclosed seas.

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.

A Unique 8-Step System to Reverse Your PCOS Author and naturopathic doctor Fiona McCulloch dives deep into the science underlying the mysteries of PCOS, offering the newest research and discoveries on the disorder and a detailed array of treatment options. Polycystic ovary syndrome (PCOS) is the most common hormonal condition in women. It afflicts ten to fifteen percent of women worldwide, causing various symptoms, including hair loss, acne, hirsutism, irregular menstrual cycles, weight gain, and infertility. 8 Steps to Reverse your PCOS gives you the knowledge to take charge of your health. Dr. McCulloch introduces the key health factors that must be addressed to reverse PCOS. Through quizzes, symptom checklists, and lab tests, she'll guide you in identifying which of the factors are present and what you can do to treat them. You'll have a clear path to health with the help of this unique, step-by-step natural medicine system to heal your PCOS. Having worked with thousands of people seeking better health over the past fifteen years of her practice, Dr. McCulloch is committed to health education and advocacy, enabling her patients with the most current information on health topics and natural therapies with a warm, empathetic approach.

Radio Frequency Identification (RFID), a method of remotely storing and receiving data using devices called RFID tags, brings many real business benefits to today world's organizations. Over the years, RFID research has resulted in many concrete achievements and also contributed to the creation of communities that bring scientists and engineers together with users. This book includes valuable research studies of the experienced scientists in the field of RFID, including most recent developments. The book offers new insights, solutions and ideas for the design of efficient RFID architectures and applications. While not pretending to be comprehensive, its wide coverage may be appropriate not only for RFID novices, but also for engineers, researchers, industry personnel, and all possible candidates to produce new and valuable results in RFID domain.

These are the proceedings of the International Conference on Manufacturing Engineering and Processing (ICMEP 2012), held on the 21st and 22nd April, 2012, in Kunming, China. The objective of ICMEP 2012 was to provide a forum for the discussion of new developments, recent progress and innovations in Manufacturing Engineering and Processing. These proceedings address all aspects of design methods, with the emphasis placed on current and future challenges in research and developments in academia and industry.

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