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Maintenance in Motion Elsevier E-Commerce and V-Business examines the impact of the Internet and associated technologies on two related aspects of business: electronic commerce and virtual organisation. Using a combination of recent theory and empirical evidence it demonstrates how forward thinking organisations are reaping considerable strategic advantage from exciting new business models in these areas. Such models

require radical rethinking of many aspects of traditional business. The book covers many of the critical and contemporary issues stemming from these important new developments.

Contemporary Apprenticeship

Springer

Catalysis, Green Chemistry and Sustainable Energy: New Technologies for Novel Business Opportunities offers new possibilities for businesses who want to address the current global transition period to adopt low carbon and sustainable energy production. This comprehensive source provides an integrated view of new possibilities within catalysis and green chemistry in an economic context, showing how these potential new technologies may become useful to business. Fundamentals and specific examples are included to guide the transformation of idea to innovation and business. Offering an overview of the new possibilities for creating business in catalysis, energy and green chemistry, this book is a beneficial tool for students, researchers and academics in chemical and biochemical engineering. Discusses new developments in catalysis, energy and green chemistry from the perspective of converting ideas to innovation and business Presents case histories, preparation of business plans, patent protection and IP rights, creation of start-ups, research funds and successful written proposals Offers an interdisciplinary approach combining science and business

Computational Models, Software Engineering, and Advanced Technologies in Air Transportation: Next Generation Applications

Frontiers Media SA

Biovalorisation of Wastes to Renewable Chemicals

and Biofuels addresses advanced technologies for converting waste to biofuels and value-added products. Bi ovalorisatio n has several advantages over conventional bioremediati on processes as it helps reduce the costs of bioprocesses . Examples are provided of several successfully commercializ ed technologies, giving insight into developing, potential processes for biovalor isation of different wastes. Different bioprocess strategies are discussed for valorising the wastes coming from the leather industry, olive oil industry, pulp and paper, winery, textile, and food industries, as well as aquaculture. A section on biorefinery for hydrocarbons and emerging contaminants is included to cover concepts on biodesulfuri zation of petroleum wastes, leaching of heavy metals from E – waste, and b ioelectroche mical processes for CO2. Chapters on algal biorefinery are also

included to focus on the technologies for conversion of CO2 sequestration and wastewater utilization. Biovalorisation of Wastes to Renewable Chemicals and Biofuels can be used as course material for graduate students in chemical engineering, chemistry, and biotechnology, and as a reference for industrial professionals and researchers who want to gain a basic understanding on the subject. Covers a wide range of topics, from the conversion of wastes to organic acids, biofuels, biopolymers and industrially relevant products Bridges the gap between academics and industry Written in a lucid and self-explanatory style Includes activities/quiz/critical questions

Graduating Engineer

IGI Global

Aircraft Engineering Principles is the essential text for anyone studying for licensed A&P or Aircraft Maintenance Engineer status. The book is written to meet the requirements of JAR-66/ECAR-66, the Joint Aviation Requirement (to be replaced by European Civil Aviation Regulation) for all

aircraft engineers within Europe, which is also being continuously harmonised with Federal Aviation Administration requirements in the USA. The book covers modules 1, 2, 3, 4 and 8 of JAR-66/ECAR-66 in full and to a depth appropriate for Aircraft Maintenance Certifying Technicians, and will also be a valuable reference for those taking ab initio programmes in JAR-147/ECAR-147 and FAR-147. In addition, the necessary mathematics, aerodynamics and electrical principles have been included to meet the requirements of introductory Aerospace Engineering courses. Numerous written and multiple choice questions are provided at the end of each chapter, to aid learning.

Algebras for Feature-Oriented Software Development Springer

Throughout the world, people understand the meaning of 'apprenticeship'. As a model of learning and skill formation, apprenticeship has adapted over the years to reflect changes in work, in technology, and in the types of knowledge that underpin occupational expertise. Apprenticeship serves the needs of government, as well as employers, individuals and society more generally. These needs have always co-existed in dynamic tension. This book explores the contemporary state of apprenticeship in Europe, the United States, Canada, and Ghana. The chapters present perspectives from leading researchers in the field, showing how apprenticeship is

evolving and changing in every country (crossing boundaries of age, sector and levels of skill and knowledge) and examining the ability of apprenticeship to facilitate both vertical progression – particularly to higher education – and horizontal progression between jobs and sectors. As such, apprenticeship remains at the core of debates about vocational learning and the nature of expertise. This book was originally published as a special issue of the Journal of Vocational Education and Training.

KLM Engineering & Maintenance Routledge

"This book disseminates knowledge on modern information technology applications in air transportation useful to professionals, researchers, and aca demicians"--Provid ed by publisher.

Biovalorisation of Wastes to Renewable Chemicals and Biofuels Springer Nature

John Eargle's 4th edition of The Handbook of Recording Engineering is the latest version of his long-time classic hands-on book for aspiring recording engineers. It follows the broad outline of its predecessors, but has been completely recast for the benefit of today's training in recording and its allied arts and sciences. Digital recording and signal processing are covered in detail, as are actual studio miking and production techniques -- including the developing field of surround sound. As always, the traditional topics of basic stereo, studio acoustics, analog tape recording, and the stereo LP are

covered in greater detail than you are likely to find anywhere except in archival references. This book has been completely updated with numerous new topics added and outdated material removed. Many technical descriptions are now presented in Sidebars, leaving the primary text for more general descriptions. Handbook of Recording Engineering, Fourth Edition is for students preparing for careers in audio, recording, broadcast, and motion picture sound work. It will also be useful as a handbook for professionals already in the audio workplace.

Metalevel Architectures and Separation of Crosscutting Concerns Routledge

This book presents a collection of research findings and proposals on computer science and computer engineering, introducing readers to essential concepts, theories, and applications. It also shares perspectives on how cutting-edge and established methodologies and techniques can be used to obtain new and interesting results. Each chapter focuses on a specific aspect of computer science or computer engineering, such as: software engineering, complex systems, computational intelligence, embedded systems, and systems engineering. As such, the book will bring students and professionals alike up to date on key advances in these areas.

Approximate Simulation Model for Analysis and Optimization in Engineering System Design SAE International

A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA

scientific and technical information system and announced in Scientific and technical aerospace reports (STAR) and International aerospace abstracts (IAA).

Computer Science and Engineering—Theory and Applications

Elsevier

Aircraft Engineering Principles is the essential text for anyone studying for licensed A&P or Aircraft Maintenance Engineer status. The book is written to meet the requirements of JAR-66/ECAR-66, the Joint Aviation Requirement (to be replaced by European Civil Aviation Regulation) for all aircraft engineers within Europe, which is also being continuously harmonised with Federal Aviation Administation requirements in the USA. The book covers modules 1, 2, 3, 4 and 8 of JAR-66/ECAR-66 in full and to a depth appropriate for Aircraft Maintenance Certifying Technicians, and will also be a valuabe reference for those taking ab initio programmes in JAR-147/ECAR-147 and FAR-147. In addition, the necessary mathematics, aerodynamics and electrical principles have been included to meet the requirements of introductory Aerospace Engineering courses. Numerous written and multiple choice questions are provided at the end of each chapter, to aid learning.

Airline Operations

Taylor & Francis

This book explores topics at the interface between

mechanical and chemical engineering, with a focus on design, simulation, and manufacturing. Covering recent developments in the mechanics of solids and structures; numerical simulation of coupled problems, including wearing, compression, detonation and collision; and chemical process technologies, including ultrasonic technology, capillary rising process, pneumatic classification, membrane electrolysis and absorption processes, it reports on developments in the field of heat and mass transfer, energy-efficient technologies, and industrial ecology. Part of a two-volume set based on the 3rd International Conference on Design, Simulation, Manufacturing: The Innovation Exchange (DSMIE-2020), held on June 9-12, 2020, in Kharkiv, Ukraine, this book provides academics and professionals with extensive information on the latest trends, technologies and challenges in the field as well as practical lessons learned.

Systems Cost Engineering CRC Press

This volume constitutes the proceedings of REFLECTION 2001, the Third International Conference on Metalevel Architectures and Separation of Crosscutting Concerns, which was held in Kyoto, September 25-28, 2001. Metalevel architectures and re?ection have drawn the attention of researchers and practitioners throughout

computer science. Re?ective and metalevel te- niques are being used to address real-world problems in such areas as: progr- ming languages, operating systems, databases, distributed computing, expert systems and web computing. Separation of concerns has been a guiding principle of software engineering for nearly 30 years, but its known bene?ts are seldom fully achieved in practice. This is primarily because traditional mechanisms are not powerful enough to handle many kinds of concerns that occur in practice. Over the last 10 years, to overcome the limitations of traditional frameworks, many researchers, including several from the re?ection community, have proposed new approaches. For the ?rst time, papers on advanced approaches to separation of concerns were explicitly solicited. Following the success of previous conferences such as IMSA ' 92 in Tokyo, Re?ection ' 96 in San Francisco, and Re?ection ' 99 in Saint Malo, we hope that the conference provided an excellent forum for researchers with a broad range of interests in metalevel architectures, re?ective techniques, and separation of concerns in general.

NASA SP-7500

Gower Publishing, Ltd.

In this book, recent developments, the future outlook, and advanced and analytical modeling techniques of smart electric and hybrid vehicles are explained with examples backed by experimental and numerical data. It also discusses the integration of newer

developments like digital twin, artificial intelligence, nature-inspired algorithms, Internet of Things, and the role of Industry 4.0 in advancements in vehicle engineering. It compiles overall aspects of advancements in smart electric and hybrid vehicles by bringing the latest research and development by comprehensive range of mathematical, numerical, and simulation modeling, and management techniques to strengthen the engineering science and technological developments for the future. Features: · This book focuses on contemporary aspects of smart electric and hybrid vehicles techniques for new means and models for green environment. · Discusses the role of artificial intelligence, machine learning, and machine vision tools in smart electric and hybrid vehicles. · Presents design and analysis of charging stations and their sustainability roadmap for smart electric vehicles. · Highlights the cyber and functional security of intelligent and hybrid vehicles. · Explains diagnostics, prognostics, reliability, and durability issues in smart electric and hybrid vehicles. · Covers the Internet of Things-based battery and charging management approach and effect of voltage drop in charging capacity of smart electric vehicles. It is primarily written for senior undergraduates, graduate students,

and academic researchers in the fields of electrical engineering, electronics and communication engineering, computer engineering, and automotive engineering.

Radio-electronics BoD – Books on Demand

KLM Royal Dutch Airlines has successfully been using the General Electric Ground-based Engine Monitoring (GEM) system for overall monitoring of on-wing engines for several years. GEM provides a function for the modular analysis of engines with the Turbine Engine Modular Performance Estimation Routine (TEMPER). This paper describes the introduction and first applications of the Test Cell TEMPER routine within KLM for the CF6-50 and CF6-80 engines. The subjects to be discussed include a short description, the installation and the evaluation of the Test Cell TEMPER function. Furthermore, KLM's first experience with Test Cell TEMPER and KLM's plans with TEMPER for the near future are discussed.

Fossil Energy Update Springer

Engineering Interactive Systems 2007 is an IFIP working conference that brings together researchers and practitioners interested in strengthening the scientific foun- tions of user interface design, examining the relationship between software engine- ing (SE) and human – computer interaction (HCI) and on how user-centerd design (UCD) could be strengthened as an essential part of the software engineering process. Engineering Interactive Systems 2007 was created by merging three conferences: · HCSE 2007 – Human-Centerd Software Engineering held for the first time. The HCSE Working Conference is a multidisciplinary conference entirely

dedicated to advancing the basic science and theory of human-centerd software systems engineering. It is organized by IFIP WG 13.2 on Methodologies for User-Centerd Systems Design. · EHCI 2007 – Engineering Human Computer Interaction was held for the tenth time. EHCI aims to investigate the nature, concepts, and construction of user interfaces for software systems. It is organized by IFIP WG 13.4/2.7 on User Interface Engineering. · DSV-IS 2007 – Design, Specification and Verification of Interactive Systems was held for the 13th time. DSV-IS provides a forum where researchers wo- ing on model-based techniques and tools for the design and development of - teractive systems can come together with practitioners and with those working on HCI models and theories.

International Aerospace Abstracts

Routledge

Marijan Jozic has been involved in avionics engineering and maintenance for over 40 years. He has held a variety of roles, from Test Equipment Calibration and Maintenance Engineer, Systems Engineer, to Product and Program Manager.In Aviation Engineering: Navigating Through the Golden Years, Marijan candidly shares his journey through the world of avionics. Covering the 40-year period between 1980 and 2020, he discusses his experiences, observations, challenges faced, obstacles overcome, and the lessons learned throughout his successful career,

as he proudly carried the torch through a crucial time in the aviation industry. The insights provided on team building and leadership can be beneficial for any stage of a career path."Who else could be most qualified to write a book about the golden years of aviation than Marijan Jozic? From the bowels of electromechanical instrumentation to the latest flight management computers, from the 'steam gauges' to LCD and Head Up displays, Marijan has seen, designed and managed their implementation. Thus then, who best to lead you in a journey through those golden years."Randolph Johnstone PhD, Former Boeing Associate Technical Fellow (I SBN:97814686053 96 ISBN:97814686 05402 ISBN:97814 68605389 DOI:10. 4271/9781468605 396)

Handbook of Recording Engineering Springer Science & Business Media This book systematically presents the underlying mathematical structures and foundations of feature orientation in the fields of software development. New algebras are proposed and thorough investigations and discussions of their algebraic laws as well as insights on their practical applications are provided. Feature-oriented programming and feature-oriented software development have been established in computer science as a general programming paradigm that provides formalisms,

methods, languages, and tools for building maintainable, customizable, and extensible software. Feature orientation has widespread applications, ranging from network protocols and data structures to software product lines.

Space Programs Summary

Parametric cost estimating models are flexible tools which bring engineering, scientific and mathematical rigour to cost and schedule estimating, but great tools alone will not keep programs affordable. Tools must be applied as part of a credible process if estimates and analyses are to be accepted. Complex major projects involving engineering, hardware, software, service and IT, all suffer from two basic problems: the project sponsors often struggle to specify the project effectively, and project managers find themselves wrestling with unpredicted cost or schedule overruns. Everyone wants to be successful with the tools and solutions they use, so this book is a comprehensive collection of methods with proven success. The applications described by Dale Shermon and his co-authors have evolved over 30 years of cost engineering experience during which time they have been matured by the parametric community. Each chapter explores a different application of parametrics, based on real-life case examples, providing you with a detailed guide to the rationale and value of cost engineering in a different industry or program context. Systems Cost Engineering will help cost engineers, project and program directors, and the champions that support them, to understand and apply parametrics to ensure that their programs: * offer a credible analysis of alternative cost options * are never initiated with insufficient funding because of inaccurate estimates of cost or quantification of risks * are never diverted from their objective because of a lack of

credible cost management * share and communicate knowledge of realistic and dynamic cost and productivity metrics amongst the program team * are never derailed by surprise cost overruns or schedule delays The information in this book will give projects sponsors and bid managers confidence in the business case that they are developing and enable them to communicate a clear and transparent picture of the risks, opportunities and benefits to stakeholders and project owners.

Aircraft Engineering and Aerospace Technology

Written by a range of international industry practitioners, this book offers a comprehensive overview of the essence and nature of airline operations in terms of an operational and regulatory framework, the myriad of planning activities leading up to the current day, and the nature of intense activity that typifies both normal and disrupted airline operations. The first part outlines the importance of the regulatory framework underpinning airline operations, exploring how airlines structure themselves in terms of network and business model. The second part draws attention to the operational environment, explaining the framework of the air traffic system and processes instigated by operational departments within airlines. The third part presents a comprehensive breakdown of the activities that occur on the actual operating day. The fourth part provides an eye-opener into events that typically go wrong on the operating day and then the means by which airlines try to mitigate these problems. Finally, a glimpse is provided of future systems, processes, and technologies likely to

be significant in airline operations. Airline Operations: A Practical Guide offers valuable knowledge to industry and academia alike by providing readers with a well-informed and interesting dialogue on critical functions that occur every day within airlines.

Amateur Radio