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Radar for Fully Autonomous Driving - Matt Markel 2022-04-30

This is the first book to bring together the increasingly complex radar automotive technologies and tools being explored and utilized in the development of fully autonomous vehicles - technologies and tools now understood to be an essential need for the field to fully mature. The book presents state-of-the-

art knowledge as shared by the best and brightest experts working in the automotive radar industry today -- leaders who have "been there and done that." Each chapter is written as a standalone "master class" with the authors, seeing the topic through their eyes and experiences. Where beneficial, the chapters reference one another but can otherwise be read in any order desired, making the book an

excellent go-to reference for a particular topic or review you need to understand. You'll get a big-picture tour of the key radar needs for fully autonomous vehicles, and how achieving these needs is complicated by the automotive environment's dense scenes, number of possible targets of interest, and mix of very large and very small returns. You'll then be shown the challenges from - and mitigations to - radio frequency interference (RFI), an ever-increasing challenge as the number of vehicles with radars - and radars per vehicle grow. The book also dives into the impacts of weather on radar performance, providing you with insights gained from extensive real-world testing. You are then taken through the integration and systems considerations, especially regarding safety, computing needs, and testing. Each of these areas is influenced heavily by the needs of fully autonomous vehicles and are open areas of research and development. With this authoritative volume you will understand: * How

to engage with radar designers (from a system integrator / OEM standpoint); * How to structure and set requirements for automotive radars; * How to address system safety needs for radars in fully autonomous vehicles; * How to assess weather impact on the radar and its ability to support autonomy; * How to include weather effects into specifications for radars. This is an essential reference for engineers currently in the autonomous vehicle arena and/or working in automotive radar development, as well as engineers and leaders in adjacent radar fields needing to stay abreast of the rapid developments in this exciting and dynamic field of research and development.

Systems, Software and Services Process

Improvement - Murat Yilmaz 2022-09-26

This volume constitutes the refereed proceedings of the 29th European Conference on Systems, Software and Services Process Improvement, EuroSPI 2022, held in Salzburg, Austria, in August-September 2022. The 49 full

papers and 8 short papers presented were carefully reviewed and selected from 110 submissions. The papers are organized according to the following topical sections: SPI and emerging and multidisciplinary approaches to software engineering; digitalisation of industry, infrastructure and e-mobility; SPI and good/bad SPI practices in improvement; SPI and functional safety and cybersecurity; SPI and agile; SPI and standards and safety and security norms; SPI and team skills and diversity; SPI and recent innovations; virtual reality and augmented reality.

IBM PowerKVM: Configuration and Use - Scott Vetter 2016-05-31

This IBM® Redpaper Redbooks® publication presents the IBM PowerKVM virtualization for scale-out Linux systems, including the new LC IBM Power Systems™. PowerKVM is open source server virtualization that is based on the IBM POWER8® processor technology. It includes the Linux open source technology of

KVM virtualization, and it complements the performance, scalability, and security qualities of Linux. This book describes the concepts of PowerKVM and how you can deploy your virtual machines with the software stack included in the product. It helps you install and configure PowerKVM on your Power Systems server and provides guidance for managing the supported virtualization features by using the web interface and command-line interface (CLI). This information is for professionals who want to acquire a better understanding of PowerKVM virtualization technology to optimize Linux workload consolidation and use the POWER8 processor features. The intended audience also includes people in these roles: Clients Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors Open source community IBM OpenPower partners It does not replace the latest marketing materials and configuration tools. It is intended as an

additional source of information that, along with existing sources, can be used to increase your knowledge of IBM virtualization solutions. Before you start reading, you must be familiar with the general concepts of kernel-based virtual machine (KVM), Linux, and IBM Power architecture.

Citrix XenApp® 7.5 Desktop Virtualization Solutions - Andy Paul 2014-10-21

If you are a Citrix® engineer, a virtualization consultant, or an IT project manager with prior experience of using Citrix XenApp® and related technologies for desktop virtualization and want to further explore the power of XenApp® for flawless desktop virtualization, then this book is for you.

Sub-Supplier Management - Wolfgang Stoelzle 2021-06-30

This book highlights the latest research on sub-supplier management while also discussing its current state and related managerial challenges. It provides a process framework for managing

sub-suppliers and an overview of the various buyer / sub-supplier relationships and their key characteristics. Furthermore, the respective chapters address essential capabilities to successfully manage sub-suppliers and to discuss how to overcome barriers and challenges associated with sub-supplier management. Concrete examples and cases are also provided, and, in closing, potential research opportunities are outlined and demonstrated.

Lean Tools in Apparel Manufacturing - Prabir Jana 2021-02-17

The never-ending global search for a country with a low labour wage is almost bottoming out. The so-called labor-oriented apparel manufacturing industry is poised to change. Due to fierce global pressure on reducing price and lead time, the textiles and apparel producers will have to banish all waste from their supply chain. Lean manufacturing which removes waste and smoothens the process flow is gaining popularity among textiles and apparel producers and will

be a key element for the survival of the industry in the years ahead. An overview of various lean tools with a balanced mix of conceptual knowledge and practical applications in the context of apparel manufacturing Valuable industry information which managers and engineers can follow themselves without the need to hire outside consultants Case studies and examples from apparel manufacturing demonstrating how lean tools are being used successfully by leading organizations; an academicians delight Possible use cases of several lean tools having potential use in the apparel manufacturing scenario

Introduction to Quality Management in the Semiconductor Industry - Juergen Wittmann
2018-05

The "Students' Version is a "black and white" only version with a slightly reduced number of pages as compared to the full version of this text book. The primary purpose of our book is to provide the "fast lane" to practical quality

engineering and management in the semiconductor industries. In line with this objective, this book is meant to be more a guide to practical quality engineering and management, rather than a scientific treatise. Although it has been written for the semiconductor technology community, it goes without saying that it is useful for almost all other industrial areas, since in a way semiconductor technology (in particular micro-electronics) is a good model case how 100% stringent QM can be implemented in practice.

New Supplier Introduction. Risk Minimization Through Supplier Quality Management Using the Example of a Chinese Automotive Supplier - Anonym 2019-04-02

Diploma Thesis from the year 2018 in the subject Engineering - Mechanical Engineering, grade: 1.3, University of applied sciences Frankfurt a. M., language: English, abstract: This thesis will examine supplier risk management and provide prospects to minimize

these risks. Thus, the thesis will identify latent quality risks for automotive companies by introducing unknown suppliers and discloses methodological measures to minimize proactively such risks through the systematic of supplier quality management. The research is going to contribute a solution approach on this research problem that can be applied as a guideline to minimize supplier quality risks. Consequently, the theoretical framework for quality management and risk management will be examined by this thesis and existing tools and methods are compiled. A research study will be elaborated with findings and analysis from expert's knowledge. These research findings will be combined subsequently with the theoretical framework and will culminate in a recommended approach to achieve supplier risk minimization. With an increasing demand, the automotive industry must deal with the reliability of vehicles and components. The success of many companies is based on the quality of their

products, especially for companies operating successfully on the global market. In fact, all the car manufacturers as well as their suppliers are expanding their production capacities in the growth region China. Thereby new, innovative suppliers need to be established which are quality-capable. Of great importance is high quality, absolute delivery reliability together with unrivaled low prices. Stable partnerships are required with suppliers to rely on in the long-term. A New Supplier Introduction represents a risk for quality particularly when the supplier starts from a Greenfield. The major problem when nominating new suppliers is that there is no security in advance for the quality performance of the new supplier in series and that

Measurement Systems Analysis - 1990

Measurement Process Qualification - Edgar Dietrich 2011

In production, measurement process capability

studies are required. This requirement is obligatory according to several international standards, guidelines and company guidelines of the automotive industry. Due to this requirement, the risk of product liability is to become appreciable and controllable. While the automotive industry implemented gage capability studies during the last years, today, the determination of the extended measurement uncertainty serves as an alternative to capability studies or to the applicability of measurement processes. This book gives a comprehensive overview and assists you in dealing with these requirements in industrial production. Several guidelines contained in this book (Bosch, DaimlerChrysler, General Motors Powertrain) apply the procedures described here. The acquired experience confirms the great benefit of these procedures in practice. The following standards are considered " DIN EN ISO 9001:2000 and ISO/TS 16949 " QS-9000, MSA Third Edition " VDA 6.1, VDA 5 "Measurement

Process Capability" " DGQ 13-61 "Gage Management" " GUM / DIN EN V 13005 " DIN EN ISO 14253 " DIN EN ISO 10012:2003 " VDI/VDE/DGQ 2618

Engage the Brain - Allison Posey 2018-11-20
Research on the brain has shown that emotion plays a key role in learning, but how can educators apply that research in their day-to-day interactions with students? What are some teaching strategies that take advantage of what we know about the brain? Engage the Brain answers these questions with easy-to-understand explanations of the brain's emotion networks and how they affect learning, paired with specific suggestions for classroom strategies that can make a real difference in how and what students learn. Readers will discover how to design an environment for learning that Makes material relevant, relatable, and engaging. Accommodates tremendous variability in students' brains by giving them multiple options for how to approach their learning. Incorporates

Universal Design for Learning (UDL) principles and guidelines. Uses process-oriented feedback and other techniques to spark students' intrinsic motivation. Author Allison Posey explains how schools can use the same "emotional brain" concepts to create work environments that reduce professional stress and the all-too-common condition of teacher burnout. Real-world classroom examples, along with reflection and discussion questions, add to the usefulness of Engage the Brain as a practical, informative guide for understanding how to capture the brain's incredible power and achieve better results at all grade levels, in all content areas.

The Automotive Body Manufacturing Systems and Processes - Mohammed A. Omar 2011-02-10

A comprehensive and dedicated guide to automotive production lines, The Automotive Body Manufacturing Systems and Processes addresses automotive body processes from the stamping operations through the final assembly activities. To begin, it discusses current metal

forming practices, including stamping engineering, die development, and dimensional validation, and new innovations in metal forming, such as folding based forming, super-plastic, and hydro forming technologies. The first section also explains details of automotive spot welding (welding lobes), arc welding, and adhesive bonding, in addition to flexible fixturing systems and welding robotic cells. Guiding readers through each stage in the process of automotive painting, including the calculations needed to compute the number of applicators and paint consumption based on vehicle dimensions and demand, along with the final assembly and automotive mechanical fastening strategies, the book's systematic coverage is unique. The second module of the book focuses on the layout strategies of the automotive production line. A discussion of automotive aggregate planning and master production scheduling ensures that the reader is familiar with operational aspects. The book also reviews

the energy emissions and expenditures of automotive production processes and proposes new technical solutions to reduce environmental impact. Provides extensive technical coverage of automotive production processes, discussing flexible stamping, welding and painting lines Gives complete information on automotive production costing as well as the supplier selection process Covers systems from the operational perspective, describing the aggregate and master production planning Details technical aspects of flexible automotive manufacturing lines Methodically discusses the layout and location strategies of automotive manufacturing systems to encompass the structural elements Features topic-related questions with answers on a companion website *EPA-503/8 - 1989*

Quality Management with SAP S/4HANA -
Jawad Akhtar 2019
Keep your product standards high with this

comprehensive guide to quality management in SAP S/4HANA! You'll learn how to make QM an integral part of your existing supply chain by connecting to materials management, production planning, warehouse management, and other logistics processes. Step-by-step instructions will show you how to both configure and use key QM processes like batch management and audits. Implement quality plans, inspections, and notifications in SAP S/4HANA to be confident in your product's quality! 1) Master data 2) Integration with logistics 3) Quality inspection 4) Batch management 5) Sample management 6) Quality certificates 7) Quality issue management 8) Quality notifications 9) Quality planning 10) Stability study 11) Failure mode and effects analytics (FMEA) 12) Reporting
Automotive SPICE in Practice - Markus Mueller 2008
Provides information and guidance for engineers, managers, and practitioners on

applying and implementing the Automotive SPICE framework.

Automotive Quality Systems Handbook -

David Hoyle 2005-08-16

ISO/TS 16949:2002 (TS2) will have a huge impact on the whole of the automobile industry as it formalises, under a single world-wide standard, the quality system that must be met by vehicle manufacturers and their suppliers. This handbook is the only comprehensive guide to understanding and satisfying the requirements of ISO/TS 16949:2002. Written by best-selling quality author David Hoyle (ISO 9000 Quality Systems Handbook) this new book is ideal for those new to the standard or establishing a single management system for the first time, as well as those migrating from existing quality management systems. It will suit quality system managers and quality professionals across the automotive industry, managers and executive level readers, consultants, auditors, trainers and students of management and quality. The only

complete ISO/TS 16949:2002 (TS2) reference: essential for understanding both TS2 and ISO 9001:2000 TS2 becomes mandatory for all auto manufacturers and their many thousands of suppliers in 2006 Includes details of the certification scheme, the differences with previous standards, check lists, questionnaires, tips for implementers, flow charts and a glossary of terms David Hoyle is one of the world's leading quality management authors

Total Revenue Management (TRM) - Marc Helmold 2020-06-03

This book explores total revenue management (TRM), an emerging concept in revenue management that incorporates existing principles and tools of revenue management across all profit streams. It is a professional's guide to using TRM in an optimal and innovative manner to gain competitive advantage. Readers will gain comprehensive insights into the strategies, tools and principles of TRM including existing and emerging revenue streams across

the value chain. The author offers a transparent and holistic explanation of pricing strategies, segmentation methods and distribution principles which enable implementation of TRM in organizations.

Potential Failure Mode and Effects Analysis (FMEA) - 2008

Quality Management - Comité euro-international du béton 1998

This guide has been written to provide conceptual and procedural guidance for the application of quality management systems in the field of concrete construction. Modern construction requires more and more specialized expert knowledge and involves an increasing number of participants in the construction process, such as architects, designers, material producers and contractors. The quality of the construction depends on the quality of the work of each participant and, in particular, on the organization and flow of information at the

interfaces between these participants.

Information Technology Control and Audit, Fifth Edition - Angel R. Otero 2018-07-27

The new fifth edition of Information Technology Control and Audit has been significantly revised to include a comprehensive overview of the IT environment, including revolutionizing technologies, legislation, audit process, governance, strategy, and outsourcing, among others. This new edition also outlines common IT audit risks, procedures, and involvement associated with major IT audit areas. It further provides cases featuring practical IT audit scenarios, as well as sample documentation to design and perform actual IT audit work. Filled with up-to-date audit concepts, tools, techniques, and references for further reading, this revised edition promotes the mastery of concepts, as well as the effective implementation and assessment of IT controls by organizations and auditors. For instructors and lecturers there are an instructor's manual, sample syllabi and

course schedules, PowerPoint lecture slides, and test questions. For students there are flashcards to test their knowledge of key terms and recommended further readings. Go to <http://routledgetextbooks.com/textbooks/9781498752282/> for more information.

OpenStack Operations Guide - Tom Fifield
2014-04-24

Design, deploy, and maintain your own private or public Infrastructure as a Service (IaaS), using the open source OpenStack platform. In this practical guide, experienced developers and OpenStack contributors show you how to build clouds based on reference architectures, as well as how to perform daily administration tasks. Designed for horizontal scalability, OpenStack lets you build a cloud by integrating several technologies. This approach provides flexibility, but knowing which options to use can be bewildering. Once you complete this book, you'll know the right questions to ask while you organize compute, storage, and networking

resources. If you already know how to manage multiple Ubuntu machines and maintain MySQL, you're ready to: Set up automated deployment and configuration Design a single-node cloud controller Use metrics to improve scalability Explore compute nodes, network design, and storage Install OpenStack packages Use an example architecture to help simplify decision-making Build a working environment to explore an IaaS cloud Manage users, projects, and quotas Tackle maintenance, debugging, and network troubleshooting Monitor, log, backup, and restore

IBM Systems Director Management Console: Introduction and Overview - Scott Vetter
2011-09-22

This IBM® Redbooks® publication positions the IBM Systems Director Management Console (SDMC) against the IBM Hardware Management Console (HMC). The IBM Systems Director Management Console provides system administrators the ability to manage IBM Power

System® servers as well as IBM Power Blade servers. It is based on IBM Systems Director. This publication is designed for system administrators to use as a deskside reference when managing Virtual Servers (formerly partitions) using the SDMC. The major functions that the SDMC provides are server hardware management and virtualization management.

Handbook for Supply Chain Risk Management - Omera Khan 2011

“This book provides a valuable resource for all those who seek to understand the sources of supply chain risk and provides powerful insights into how that risk might be mitigated.” — Martin Christopher, Emeritus Professor of Marketing & Logistics, Cranfield School of Management, UK
“This handbook is perfectly balanced with academic theory and real-world best practices making it a useful resource for both supply chain practitioners and students of the trade.” — Sean S. Murphy, President and CEO, Lootok
“This book provides practitioners and students with an

overview of good supply chain risk management practices, nicely illustrated with a diverse set of case examples.” — Stephan M. Wagner, Ph.D., Professor and Chair of Logistics Management, Swiss Federal Institute of Technology Zurich (ETH Zurich) Recent business trends, and practices, coupled with unpredictable external events have made many firms much more vulnerable to supply chain risk and disruptions than in the past. The Handbook for Supply Chain Risk Management offers the first comprehensive collection of diverse practices executives and practitioners in most any industry can adopt to proactively manage supply chain risks and improve their overall business performance. Key Features • Delivers valuable insights from 30 international contributing authors • Provides comprehensive coverage of current and future supply chain risks such as globalization, outsourcing, Lean initiatives, information security, natural disasters, political upheaval and economic recession • Includes a wide

variety of cases from various industries demonstrating effective approaches useful for benchmarking, reducing the chance and financial impact of risk, and for creating a more robust and resilient firm in the face of supply chain risk • Supplies practitioners with a set of best practices, processes, tools, and techniques supported by illustrative examples • WAV offers downloadable instructional materials — available from the Web Added Value™ Download Resource Center at www.jrosspub.com
Advanced Product Quality Planning (APQP) and Control Plan - 1995

Injection Molds for Beginners - Rainer Dangel 2020-04-06

This applications-oriented book describes the construction of an injection mould from the ground up. Included are explanations of the individual types of tools, components, and technical terms; design procedures; techniques, tips, and tricks in the construction of an

injection mould; and pros and cons of various solutions. Based on a plastic part ("bowl with lid") specially developed for this book, easily understandable text and many illustrative pictures and drawings provide the necessary knowledge for practical implementation. Step by step, the plastic part is modified and enhanced. The technologies and designs that are additionally needed for an injection mould are described by engineering drawings. Maintenance and repair, and essential manufacturing techniques are also discussed. Now in full color, this second edition builds on the success of the first, with updates and small corrections throughout, as well as an new expanded section covering the process chain.
Doing Business 2020 - World Bank 2020-01-31
Seventeen in a series of annual reports comparing business regulation in 190 economies, Doing Business 2020 measures aspects of regulation affecting 10 areas of everyday business activity.

AI and Big Data on IBM Power Systems Servers -
Scott Vetter 2019-04-10

As big data becomes more ubiquitous, businesses are wondering how they can best leverage it to gain insight into their most important business questions. Using machine learning (ML) and deep learning (DL) in big data environments can identify historical patterns and build artificial intelligence (AI) models that can help businesses to improve customer experience, add services and offerings, identify new revenue streams or lines of business (LOBs), and optimize business or manufacturing operations. The power of AI for predictive analytics is being harnessed across all industries, so it is important that businesses familiarize themselves with all of the tools and techniques that are available for integration with their data lake environments. In this IBM® Redbooks® publication, we cover the best practices for deploying and integrating some of the best AI solutions on the market, including:

IBM Watson Machine Learning Accelerator (see note for product naming) IBM Watson Studio Local IBM Power Systems™ IBM Spectrum™ Scale IBM Data Science Experience (IBM DSX) IBM Elastic Storage™ Server Hortonworks Data Platform (HDP) Hortonworks DataFlow (HDF) H2O Driverless AI We map out all the integrations that are possible with our different AI solutions and how they can integrate with your existing or new data lake. We also walk you through some of our client use cases and show you how some of the industry leaders are using Hortonworks, IBM PowerAI, and IBM Watson Studio Local to drive decision making. We also advise you on your deployment options, when to use a GPU, and why you should use the IBM Elastic Storage Server (IBM ESS) to improve storage management. Lastly, we describe how to integrate IBM Watson Machine Learning Accelerator and Hortonworks with or without IBM Watson Studio Local, how to access real-time data, and security. Note: IBM Watson

Machine Learning Accelerator is the new product name for IBM PowerAI Enterprise. Note: Hortonworks merged with Cloudera in January 2019. The new company is called Cloudera. References to Hortonworks as a business entity in this publication are now referring to the merged company. Product names beginning with Hortonworks continue to be marketed and sold under their original names.

IBM Power Systems HMC Implementation and Usage Guide - Scott Vetter 2017-08-10

The IBM® Hardware Management Console (HMC) provides to systems administrators a tool for planning, deploying, and managing IBM Power Systems™ servers. This IBM Redbooks® publication is an extension of IBM Power Systems HMC Implementation and Usage Guide, SG24-7491 and also merges updated information from IBM Power Systems Hardware Management Console: Version 8 Release 8.1.0 Enhancements, SG24-8232. It explains the new

features of IBM Power Systems Hardware Management Console Version V8.8.1.0 through V8.8.4.0. The major functions that the HMC provides are Power Systems server hardware management and virtualization (partition) management. Further information about virtualization management is in the following publications: IBM PowerVM Virtualization Managing and Monitoring, SG24-7590 IBM PowerVM Virtualization Introduction and Configuration, SG24-7940 IBM PowerVM Enhancements What is New in 2013, SG24-8198 IBM Power Systems SR-IOV: Technical Overview and Introduction, REDP-5065 The following features of HMC V8.8.1.0 through HMC V8.8.4.0 are described in this book: HMC V8.8.1.0 enhancements HMC V8.8.4.0 enhancements System and Partition Templates HMC and IBM PowerVM® Simplification Enhancement Manage Partition Enhancement Performance and Capacity Monitoring HMC V8.8.4.0 upgrade changes

Auditing Fundamentals in a South African Context - Gerrit Penning 2019-01-15

Auditing Fundamentals in a South African Context 2e is a practical, applied, and engaging introductory textbook that supports students throughout the undergraduate level of the Auditing curriculum. The text is designed to enhance learning by supporting holistic understanding: theory is presented within the framework of the real-world business environment, assisting students to apply principles and standards with an understanding of their context. The text offers a clear pedagogical framework, which supports applied learning and develops independent, critical and reflective engagement with the subject matter. A continuing case study, which follows each stage of the audit of a South African company, demonstrates the practical application of learned principles and the integration of the auditing process with a typical audit client's business. The second edition is comprehensively revised to

reflect all relevant, recent changes in the requirements of legislation, financial reporting and auditing pronouncements and codes, and addresses the new Code of Professional Conduct which was issued by the SA Institute of Chartered Accountants in the final quarter of 2018. Additional educational resources support teaching and learning, assisting students to develop the academic skills required to master their studies.

Manufacturing Execution Systems (MES): Optimal Design, Planning, and Deployment - Heiko Meyer 2009-04-10

New global standards are the basis for new MES products that have appeared in the last five years in the marketplace. Features a comprehensive presentation of available MES technologies

Avoidance of Failure - 1970

ISO 9001, ISO 14001, and New Management Standards - Iñaki Heras-Saizarbitoria

2017-10-10

This book is a comprehensive reference on ISO management system standards and their implementation. The impacts that ISO 9001 and ISO 14001 have had on business performance are analyzed in depth, and up-to-date perspectives are offered on the integration of these and other management standards (e.g. SA8000, ISO/TS 16949). Detailed information is provided on the signaling value of different management standards and on the new ISO standards for management systems, such as ISO 50001 and ISO 45001, relating to energy management and occupational health and safety. The role of audits in ensuring compliance with the standards and achievement of objectives is also carefully considered. The volume examines avenues for further research and emerging challenges. In offering an integrated, holistic perspective on ISO management system standards, this book will have wide appeal for academics, public decision-makers, and

practitioners in the field of quality and environmental management.

Tax Management Multistate Tax Portfolios - 1994

Life Cycle Assessment (LCA) - Allan Astrup Jensen 1998

Life Cycle Assessment

End-to-end Integration with IBM Sterling B2B Integration and Managed File Transfer solutions - James Ballentine 2012-07-21

Across numerous vertical industries, enterprises are challenged to improve processing efficiency as transactions flow from their business communities to their internal systems and vice versa, simplify management and expansion of the external communities, accommodate customer and supplier preferences, govern the flow of information, enforce policy and standards, and protect sensitive information. Throughout this process, external partners must be on-boarded and off-boarded, information

must flow across multiple communications infrastructures, and data must be mapped and transformed for consumption across multiple applications. Some transactions require synchronous or real-time processing while others are of a more periodic nature. For some classes of customer or supplier, the enterprise might prefer a locally-managed, on-premise solution. For some types of communities (often small businesses), an as-a-Service solution might be the best option. Many large enterprises combine the on-premise and as-a-Service approach to serve different categories of business partners (customers or suppliers). This IBM® Redbooks® publication focuses on solutions for end-to-end integration in complex value chains and presents several end-to-end common integration scenarios with IBM Sterling and IBM WebSphere® portfolios. We believe that this publication will be a reference for IT Specialists and IT Architects implementing an integration solution architecture involving IBM

Sterling and IBM WebSphere portfolios.

Transport, Energy and CO2 - International Energy Agency 2009

Car ownership is set to triple by 2050, trucking activity will double and air travel could increase fourfold. This book examines how to enable mobility without accelerating climate change. it finds that if changes are made to the way people travel, adoption of technologies to improve vehicle efficiency and a shift to low-CO2 fuels, it is possible to move onto a different pathway where transport CO2 emissions by 2050 are far below current levels, at costs that are lower than many assume. the report discusses the prospects for shifting more travel to the most efficient modes and reducing travel growth rates, improving vehicle fuel efficiency by up to 50% using cost-effective, incremental technologies, and moving toward electricity, hydrogen, and advanced biofuels to achieve a more secure and sustainable transport future. If governments implement strong policies to achieve this

scenario, transport can play its role and dramatically reduce CO2 emissions by 2050.
Switchgear Manual - Hennig Gremmel 2007

Fault Tree Handbook - W. E. Vesely 1981
Developed to serve as a text for the System Safety and Reliability Analysis course presented to Nuclear Regulatory Commission personnel and contractors. Codifies and systematizes the fault tree approach, a deductive failure analysis which focuses on one particular undesired event and provides a method for determining the causes of that event.

Environmental Engineering Dictionary - C. C. Lee 2005

Environmental Engineering Dictionary is a comprehensive reference of more than 14,000 technical and regulatory engineering terms that are used in pollution control technologies, monitoring, risk assessment, sampling and analysis, quality control, and environmental engineering and technology. Not only are many

newly created terms included in this edition, but the original definitions have also been thoroughly revised to keep pace with the rapid changes in technology. Fuel cell technology terms, special definitions that focus on environmental management systems, and basic environmental calculations have also been added to this edition. Users of this dictionary will find exact and official Environmental Protection Agency definitions for environmental terms that are statute related, regulation related, science related, and engineering related, including terms from the following legal documents: Clean Air Act; Clean Water Act; CERCLA; EPCRA; Federal Facility Compliance Act; Federal Food, Drug, and Cosmetic Act; FIFRA; Hazardous and Solid Waste Amendment; OSHA; Pollution Prevention Act; RCRA; Safe Drinking Water Act; Superfund Amendments and Reauthorization Act; and TSCA. The terms included in this dictionary feature timesaving citations to the definitions' sources, including the Code of

Federal Regulations, the Environmental Protection Agency, and the Department of Energy. A list of the reference source documents is also included.

Green Logistics - Alan McKinnon 2015-02-03

The transport, storage and handling of goods impose a heavy burden on the environment. As concern for the environment rises, companies must take more account of the external costs of logistics associated mainly with climate change, air pollution, noise, vibration and accidents. Leading the way in current thinking on environmental logistics, *Green Logistics* provides a unique insight on the environmental impacts of logistics and the actions that companies and governments can take to deal with them. It is written by a group of leading researchers in the field and provides a comprehensive view of the subject for students, managers and policy-makers. Fully updated and revised, the 3rd Edition of *Green Logistics* takes a more global perspective than previous

editions. It introduces new contributors and international case studies that illustrate the impact of green logistics in practice. There is a new chapter on the links between green logistics and corporate social responsibility (CSR) and a series of postscripts examining the likely effects of new developments, such as 3D printing and distribution by drone, on the environmental footprint of logistics. Other key topics examined in the book include: carbon auditing of supply chains; transferring freight to greener transport modes; reducing the environmental impact of warehousing; improving the energy efficiency of freight transport; making city logistics more environmentally sustainable; reverse logistics for the management of waste; role of government in promoting sustainable logistics. Ideal for use on related courses, the 3rd Edition of *Green Logistics* includes indispensable online supporting materials, including graphics, tables and chapter summaries, as well as technical information and guidelines for teachers and

lecturers. The book is endorsed by the Chartered Institute of Logistics and Transport (CILT).