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Highly Commended in the Health and Social Care category of the 2011 BMA Medical Book Awards For those involved in commissioning and running projects working with people, measuring performance and assessing outcomes are an essential part of applying for and maintaining funding, and a way of demonstrating the project's achievements. This versatile 'how to' book guides you through the process of evaluating your project in order to improve funding applications and build the case for your project's survival. The guidance in this book will help you to set out what the aims and projected outcomes of your project are, how these will be achieved, and shows you how to capture evidence for outcomes. To cater for readers working in different settings, a broad range of case examples is used including youth groups with at-risk young people, a refuge for women who have suffered domestic violence, a road safety education programme and midwives encouraging new mothers to stop smoking. The book also includes a host of practical features designed to provide a

deeper understanding of the subject, including activities, reflective tools, and a glossary of key terms. A Practical Guide to Outcome Evaluation will help to ensure the success of projects that make a difference to people's lives, and will be an essential reference for managers and practitioners working in people-orientated professions including social work, health, teaching, youth work, criminal justice, the arts and the emergency services. "A very rich book sprinkled with real-life examples as well as battle-tested advice." —Pierre Haren, VP ILOG, IBM "James does a thorough job of explaining Decision Management Systems as enablers of a formidable business transformation." —Deepak Advani, Vice President, Business Analytics Products and SPSS, IBM Build Systems That Work Actively to Help You Maximize Growth and Profits Most companies rely on operational systems that are largely passive. But what if you could make your systems active participants in optimizing your business? What if your systems could act intelligently on their own? Learn, not just report? Empower users to take action instead of simply escalating their problems? Evolve without massive IT investments? Decision Management Systems can do all that and more. In this book, the field's leading expert demonstrates how to use them to drive unprecedented levels of business value. James Taylor shows how to integrate operational and analytic technologies to create systems that are more agile, more analytic, and more adaptive. Through actual case studies, you'll learn how to combine technologies such as predictive analytics, optimization, and business rules—improving customer service, reducing fraud, managing risk, increasing agility, and driving growth. Both a practical how-to guide and a framework for planning, Decision Management Systems focuses on mainstream business

challenges. Coverage includes Understanding how Decision Management Systems can transform your business Planning your systems “with the decision in mind” Identifying, modeling, and prioritizing the decisions you need to optimize Designing and implementing robust decision services Monitoring your ongoing decision-making and learning how to improve it Proven enablers of effective Decision Management Systems: people, process, and technology Identifying and overcoming obstacles that can derail your Decision Management Systems initiative The modern dependence upon information technology and the corresponding information security regulations and requirements force companies to evaluate the security of their core business processes, mission critical data, and supporting IT environment. Combine this with a slowdown in IT spending resulting in justifications of every purchase, and security professionals are forced to scramble to find comprehensive and effective ways to assess their environment in order to discover and prioritize vulnerabilities, and to develop cost-effective solutions that show benefit to the business. A Practical Guide to Security Assessments is a process-focused approach that presents a structured methodology for conducting assessments. The key element of the methodology is an understanding of business goals and processes, and how security measures are aligned with business risks. The guide also emphasizes that resulting security recommendations should be cost-effective and commensurate with the security risk. The methodology described serves as a foundation for building and maintaining an information security program. In addition to the methodology, the book includes an Appendix that contains questionnaires that can be modified and used to conduct security assessments.

This guide is for security professionals who can immediately apply the methodology on the job, and also benefits management who can use the methodology to better understand information security and identify areas for improvement. Learn more about renewable energy, how to install and inspect renewable energy systems and gain certification. This is a perfect introduction to one of the construction industry's leading growth areas. It provides an overview of all types of renewable energy sources, as well as information relating to the installation and inspection of renewable energy systems. The practical focus in this book will give you the confidence to pass micro-generation exams, discuss the subject with clients and work on all new and emerging renewable energy systems. It does this by providing you with: Step-by-step instructions in how to fit and test renewable energy systems Clear diagrams, photos and flow charts that demonstrate core principles Questions and answers that enable you to test your knowledge and further your understanding of the subject As a student or professional this textbook will provide the information needed to pass your course and is also an ideal onsite reference. Chris Kitcher is an Electrical Installation lecturer at Central Sussex College, author of the bestselling Practical Guide to Inspection, Testing and Certification of Electrical Installations and has 45 years of experience in the electrical industry. The first guide to the field of renewable energy aimed at the vocational and professional construction courses A hot topic in an industry with over 200,000 students and professionals Written by bestselling author Chris Kitcher The scope of the book covers most of the aspects as a primer on power electronics starting from a simple diode bridge to a DC-DC convertor using PWM control. The thyristor-bridge and the

mechanism of designing a closed loop system are discussed in chapter one, two and three. The concepts are applied in the fourth chapter as a case study for buck converter which uses MOSFETs as switching devices and the closed loop system is elaborated in the fifth chapter. Chapter six is focused on the embedded system basics and the implementation of controls in the digital domain. Chapter seven is a case study of application of an embedded control system for a DC motor. With this book, the reader will find it easy to work on the practical control systems with microcontroller implementation. The core intent of this book is to help gain an accelerated learning path to practical control system engineering and transform control theory to an implementable control system through electronics. Illustrations are provided for most of the examples with fundamental mathematics along with simulations of the systems with their respective equations and stability calculations. The management of clinical data, from its collection during a trial to its extraction for analysis, has become a critical element in the steps to prepare a regulatory submission and to obtain approval to market a treatment. Groundbreaking on its initial publication nearly fourteen years ago, and evolving with the field in each iteration since then, the third edition of Practical Guide to Clinical Data Management includes important updates to all chapters to reflect the current industry approach to using electronic data capture (EDC) for most studies. See what’s new in the Third Edition: A chapter on the clinical trial process that explains the high level flow of a clinical trial from creation of the protocol through the study lock and provides the context for the clinical data management activities that follow Reorganized content reflects an industry trend that

divides training and standard operating procedures for clinical data management into the categories of study startup, study conduct, and study closeout Coverage of current industry and Food and Drug Administration (FDA) approaches and concerns The book provides a comprehensive overview of the tasks involved in clinical data management and the computer systems used to perform those tasks. It also details the context of regulations that guide how those systems are used and how those regulations are applied to their installation and maintenance. Keeping the coverage practical rather than academic, the author hones in on the most critical information that impacts clinical trial conduct, providing a full end-to-end overview or introduction for clinical data managers. This is not just another hardware and operating systems book. It is an intensive and practical guide that is updated regularly to stay abreast of the latest technology of hardware and software tools. It is a self-paced book that is excellent for beginners and accomplished experts alike. This guide will help you launch a rewarding new career in technology. It will prepare you with job-ready skills valued by employers in as little as two months, if not sooner. You don't need a degree or prior experience to understand the contents of this book. Whether you're skilling up to become a Help Desk Support Specialist, IT Support Specialist, Virtual Customer Service Agent, Technical Support Representative, or if you just want to learn the basics of working with and managing the latest IT systems, you need a strong foundation in IT skillsets. As you go through this book, you're also going to get tested on the materials we are covering by following best practices. Although this is a self-paced course, I strongly recommend that you complete it in not more than 6 weeks. For example, if you can complete one module every week, you can finish the course

in 6 weeks. Practice quizzes and answers are included at the end of most chapters to help you test yourself and see how much you have improved. In Chapter 4, you will find the link to the course resources folder. Once you open the link, you will be able to download assessment tests and their solutions, and all the screenshots used in this book (for your quick revision). Systems development is the process of creating and maintaining information systems, including hardware, software, data, procedures and people. It combines technical expertise with business knowledge and management skill. This practical book provides a comprehensive introduction to the topic and can also be used as a handy reference guide by those already working in the field. It discusses key topics of systems development such as lifecycles, development approaches, requirements engineering and how to make a business case, among others. It is the only textbook that supports the BCS Certificate in Systems Development. Build your own intelligent agent system... Intelligent agent technology is a tool of modern computer science that can be used to engineer complex computer programmes that behave rationally in dynamic and changing environments. Applications range from small programmes that intelligently search the Web buying and selling goods via electronic commerce, to autonomous space probes. This powerful technology is not widely used, however, as developing intelligent agent software requires high levels of training and skill. The authors of this book have developed and tested a methodology and tools for developing intelligent agent systems. With this methodology (Prometheus) developers can start agent-oriented designs and implementations easily from scratch saving valuable time and resources. Developing Intelligent Agent Systems not only answers the questions

“what are agents?” and “why are they useful?” but also the crucial question: “how do I design and build intelligent agent systems?” The book covers everything a practitioner needs to know to begin to effectively use this technology - including an introduction to the notion of agents, a description of the concepts involved, and a software engineering methodology. Read on for: a practical step-by-step introduction to designing and building intelligent agent systems. a full life-cycle methodology for developing intelligent agent systems covering specification, analysis, design and implementation of agents. PDT: Prometheus Design Tool – software support for the Prometheus design process. the example of an electronic bookstore to illustrate the design process throughout the book. Electronic resources including the Prometheus Design Tool (PDT), can be found at: http://www.cs.rmit.edu.au/agents/prometheus This book is aimed at industrial software developers, software engineers and at advanced undergraduate students. It assumes knowledge of basic software engineering but does not require knowledge of Artificial Intelligence or of mathematics. Familiarity with Java will help in reading the examples in chapter 10. The defining attributes of the 21st-century economy and fourth industrial revolution are innovation, technology, globalization, and a rapid pace of change. Therefore, an organization's capacity to enhance the capabilities of its workforce and create a culture of continuous learning are vital to remaining competitive. These trends make an effective learning-and-development (L&D) function more critical than ever. This compendium of articles, from L&D professionals at McKinsey & Company, discusses every facet of professional development and training-from ensuring that L&D's efforts are closely

aligned with business strategy to elements of advancing the L&D function, designing learning solutions, deploying digital learning, executing flawlessly, measuring impact, and ensuring good governance. For L&D professionals seeking to hone their organization's efforts, Elevating Learning & Development: Insights and Practical Guidance from the Field is the ideal resource. Although informatics trainees and practitioners who assume operational computing roles in their organization may have reasonably advanced understanding of theoretical informatics, many are unfamiliar with the practical topics - such as downtime procedures, interface engines, user support, JCAHO compliance, and budgets - which will become the mainstay of their working lives. Practical Guide to Clinical Computing Systems 2nd edition helps prepare these individuals for the electronic age of health care delivery. It is also designed for those who migrate into clinical computing operations roles from within their health care organization. A new group of people interested in this book are those preparing for Clinical Informatics board certification in the US. The work provides particular differentiation from the popular first edition in four areas: 40% more content detailing the many practical aspects of clinical informatics. Addresses the specific needs of the Clinical Informatics board certification course – for which it is presently recommended by the ABPM Focus on new tech paradigms including cloud computing and concurrency – for this rapidly changing field. Focuses on the practical aspects of operating clinical computing systems in medical centers rather than abstruse theory. Provides deepened and broadened authorship with a global panel of contributors providing new wisdom and new perspectives - reflecting inclusion of the first edition on the clinical informatics study guide materials. Presents a

practical treatment of workday but often unfamiliar issues – downtime procedures, interface engines, user support, JCAHO compliance, and budgets. The present book focuses on recent advances methods and applications in photovoltaic (PV) systems. The book is divided into two parts: the first part deals with some theoretical, simulation and experiments on solar cells, including efficiency improvement, new materials and behavior performances. While the second part of the book devoted mainly on the application of advanced methods in PV systems, including advanced control, FPGA implementation, output power forecasting based artificial intelligence technique (AI), high PV penetration, reconfigurable PV architectures and fault detection and diagnosis based AI. The authors of the book trying to show to readers more details about some theoretical methods and applications in solar cells and PV systems (eg. advanced algorithms for control, optimization, power forecasting, monitoring and fault diagnosis methods). The applications are mainly carried out in different laboratories and location around the world as projects (Algeria, KSA, Turkey, Morocco, Italy and France). The book will be addressed to scientists, academics, researchers and PhD students working in this topic. The book will help readers to understand some applications including control, forecasting, monitoring, fault diagnosis of photovoltaic plants, as well as in solar cells such as behavior performances and efficiency improvement. It could be also be used as a reference and help industry sectors interested by prototype development. Today's technological advances are directly affecting the success of business tomorrow. With recent-- and continual--improvements in technology, many organizations are finding their information systems obsolete, and are having to

take a close look at their current Information Systems and answer some tough questions, including: How well are our current Information Systems applications meeting the business needs today? How well can they meet the needs of our business tomorrow? Are we obtaining true value from the investments made in Information Systems? Are we integrating the Information Systems projects that provide the most value to business? What Information Systems mission, objectives, and strategies are necessary to successfully meet the business challenges of the future? A Practical Guide to Information Systems Strategic Planning helps take the "guess work" out of evaluating current and future Information Systems, and provides the necessary tools for maximizing the investment made in new technology. This invaluable guide shows readers how to take advantage of the latest technology available in Information Systems planning, and how to develop a solid Information Systems plan that is directly linked to their business' goals. In an easy-to-follow, hands-on format, this complete reference describes a process for facilitating communication between business management and the Information Systems functions. Both Information Systems Executives and general business executives will find the information they need to develop a successful, value-added Information Systems plan. Readers will find a step-by-step approach to the process of developing an Information Systems plan that helps them gain a competitive edge well into the future. The practical guide to transforming your safety program into a functioning safety management system The advent of the safety management system (SMS) has affected all aviation sectors worldwide, and is now required for most domestic and international air operations, through either regulatory (14 CFR Parts 5, 119, or 121) or

voluntary compliance. It's easy to be intimidated by the scope and complexity of SMS, but Practical Safety Management Systems distills the concepts and principles into a practical working format. Universities and training organizations will find guidance and resources to create, implement, and maintain a functioning SMS. An SMS must be adapted and continuously improved to meet an organization's mission while reducing risk to the lowest viable level for flight departments, independent contractors servicing the aviation industry, air traffic services, and more. Beyond mere theory, this book encourages hands-on exercise and practical application of SMS concepts and principles to varied industry areas such as flight crews, maintenance, air traffic control, airports, and unmanned aircraft systems (UAS). Beginning with an overview and history of SMS, chapters cover SMS components, costs and development process, approaches to safety culture, human factors, audits and evaluations, and more. Each chapter concludes with review questions. Extensive case studies and references are provided throughout, with additional resources supplied in a "Reader Resources" webpage. Practical Safety Management Systems is a useful guide for transforming your safety program into an up-to-date and beneficial safety management system.

Prevention is the first line of defence in the fight against infection. As antibiotics and other antimicrobials encounter increasing reports of microbial resistance, the field of decontamination science is undergoing a major revival. A Practical Guide to Decontamination in Healthcare is a comprehensive training manual, providing practical guidance on all aspects of decontamination including: microbiology and infection control; regulations and standards; containment, transportation, handling,

cleaning, disinfection and sterilization of patient used devices; surgical instrumentation; endoscopes; and quality management systems. Written by highly experienced professionals, A Practical Guide to Decontaminationin Healthcare comprises a systematic review of decontamination methods, with uses and advantages outlined for each. Up-to-date regulations, standards and guidelines are incorporated throughout, to better equip healthcare professionals with the information they need to meet the technical and operational challenges of medical decontamination. A Practical Guide to Decontaminationin Healthcare is an important new volume on state-of-the-art decontamination processes and a key reference source for all healthcare professionals working in infectious diseases, infection control/prevention and decontamination services. A Practical Guide to SysML: The Systems Modeling Language is a comprehensive guide to SysML for systems and software engineers. It provides an advanced and practical resource for modeling systems with SysML. The source describes the modeling language and offers information about employing SysML in transitioning an organization or project to model-based systems engineering. The book also presents various examples to help readers understand the OMG Systems Modeling Professional (OCSMP) Certification Program. The text is organized into four parts. The first part provides an overview of systems engineering. It explains the model-based approach by comparing it with the document-based approach and providing the modeling principles. The overview of SYsML is also discussed. The second part of the book covers a comprehensive description of the language. It discusses the main concepts of model organization, parametrics,

blocks, use cases, interactions, requirements, allocations, and profiles. The third part presents examples that illustrate how SysML supports different model-based procedures. The last part discusses how to transition and deploy SysML into an organization or project. It explains the integration of SysML into a systems development environment. Furthermore, it describes the category of data that are exchanged between a SysML tool and other types of tools, and the types of exchange mechanisms that can be used. It also covers the criteria that must be considered when selecting a SysML. Software and systems engineers, programmers, IT practitioners, experts, and non-experts will find this book useful. *The authoritative guide for understanding and applying SysML *Authored by the foremost experts on the language *Language description, examples, and quick reference guide included A Practical Guide to Analog Behavioral Modeling for IC System Design presents a methodology for abstracting an IC system so that the designer can gain a macroscopic view of how sub-systems interact, as well as verify system functionality in various applications before committing to a design. This will prevent problems that may be caused late in the design-cycle by incompatibilities between the individual blocks that comprise the overall system. This book will focus on the techniques of modelling IC systems through analog behavioral modeling and simulation. It will investigate a practical approach by which designers can put together these systems to analyze topological and architectural issues to optimize IC system performance. Highlights: Discussions on modeling and simulation from SPICE to behavioral simulators Comparison of various hardware description languages and a discussion on the effects of language

standardization Explanation on how to reduce time-to-market by decreasing design-cycle time through modeling and simulation Contains more than 25 building block examples that can be used to construct mixed-signal IC system models Analysis of 4 different IC systems using various levels of model detail This book is intended for the practicing engineer who would like to gain practical knowledge in applications of analog behavioral modelling for IC system design. Observers are digital algorithms that combine sensor outputs with knowledge of the system to provide results superior to traditional structures, which rely wholly on sensors. Observers have been used in selected industries for years, but most books explain them with complex mathematics. Observers in Control Systems uses intuitive discussion, software experiments, and supporting analysis to explain the advantages and disadvantages of observers. If you are working in controls and want to improve your control systems, observers could be the technology you need and this book will give you a clear, thorough explanation of how they work and how to use them. Control systems and devices have become the most essential part of nearly all mechanical systems, machines, devices and manufacturing systems throughout the world. Increasingly the efficiency of production, the reliability of output and increased energy savings are a direct result of the quality and deployment of the control system. A modern and essential tool within the engineer's kit is the Observer which helps improve the performance and reduce the cost of these systems. George Ellis is the author of the highly successful Control System Design Guide (Second Edition). Unlike most controls books, which are written by control theorists and academics, Ellis is a leading engineer, designer, author and lecturer working in industry directly with the users

of industrial motion control systems. Observers in Control Systems is written for all professional engineers and is designed to be utilized without an in-depth background in control theory. This is a "real-world" book which will demonstrate how observers work and how they can improve your control system. It also shows how observers operate when conditions are not ideal and teaches the reader how to quickly tune an observer in a working system. Software Available online: A free updated and enhanced version of the author's popular Visual ModelQ allows the reader to practice the concepts with Visual ModelQ models on a PC. Based on a virtual laboratory, all key topics are demonstrated with more than twenty control system models. The models are written in Visual ModelQ ,and are available on the Internet to every reader with a PC. Teaches observers and Kalman filters from an intuitive perspective Explains how to reduce control system susceptibility to noise Shows how to design an adaptive controller based on estimating parameter variation using observers Shows how to improve a control system's ability to reject disturbances Key topics are demonstrated with PC-based models of control systems. The models are written in both MatLab® and ModelQ; models are available free of charge Also available on Authority Federal Practice Library CD-ROM. The Most Complete, Easy-to-Follow Guide to Ubuntu Linux Mark Sobell’s A Practical Guide to Ubuntu Linux®, Second Edition, isn’t just the most thorough and up-to-date reference to installing, configuring, and working with Ubuntu. It also provides comprehensive server coverage you won’t find in any other Ubuntu book. The fully updated JumpStart sections help you get complex servers running quickly. Whatever your questions may be, the completely revamped index

gives you even faster access to the answers you're searching for. And a brand new chapter on Perl programming teaches you the basics of this powerful system administration language. Sobell walks you through every feature and technique you'll need, from installing Ubuntu to working with GNOME, Samba, exim4, Apache, DNS, NIS, LDAP, ufw, firestarter, and iptables. His exceptionally clear explanations demystify everything from system security to Windows file/printer sharing. You'll find full chapters on running Ubuntu from the command line and GUI, administering systems and security, setting up networks and Internet servers, and much more. Along the way, you'll learn both the "hows" and the "whys" of Ubuntu. Sobell knows every Linux nook and cranny: He's taught hundreds of thousands of readers–and never forgets what it's like to be new to Linux. Whether you're a user, administrator, or programmer, this book gives you all you need–and more. The world's most practical Ubuntu Linux book is now even more useful! This book delivers Hundreds of easy-to-follow, easy-to-use examples Updated JumpStarts for setting up Samba, Apache, Mail, FTP, NIS, OpenSSH, DNS, and other complex servers Deeper coverage of the command line, GNOME GUI, and desktop customization Coverage of crucial Ubuntu topics such as sudo and the Upstart init daemon More detailed, usable coverage of Internet server configuration, including Apache, exim4, and DNS/BIND More state-of-the-art security techniques, including firewall setup using ufw, firestarter, and iptables, plus a full chapter on OpenSSH Deeper coverage of essential system and network administration tasks–from managing users to CUPS printing, configuring LANs to building a kernel Complete instructions on keeping Ubuntu systems up-to-date using aptitude, Synaptic, and the

Software Sources window And much more...including a 500+ term glossary and five detailed appendixes Includes DVD! Get the full version of the Ubuntu 8.10 (Intrepid Ibex) release! Clinical data management (CDM) has changed from being an essentially clerical task in the late 1970s and early 1980s to a highly computerized, highly specialized field today. And clinical data manages have had to adapt their data management systems and processes accordingly. Practical Guide to Clinical Data Management steers you through a basic understanding of the role of data management in clinical trials and includes more advanced topics such as CDM systems, SOPs, and quality assurance. This book helps you ensure GCP, manage laboratory data, and deal with the kinds of clinical data that can cause difficulties in database applications. With the tools this book provides, you'll learn how to: Ensure that your DMB system is in compliance with federal regulations Build a strategic data management and databsing plan Track and record CRFs Deal with problem data, adverse event data, and legacy data Manage and store lab data Identify and manage discrepancies Ensure quality control over reports Choose a CDM system that is right for your company Create and implement a system validation plan and process Set up and enforce data collection standards Develop test plans and change control systems This book is your guide to finding the most successful and practical options for effective clinical data management. Bridging the theory and realities of current ERP systems, Maximizing Your ERP System provides practical guidance for managing manufacturing. Illustrated with case studies from the author's firsthand experience in consulting to more than 1,000 firms, it covers common problems and working solutions across all types of environments as it offers contingency-based approaches

for how to effectively implement and use ERP systems. The book particularly addresses the issues facing smaller manufacturers and autonomous plants of larger firms. In a world of increasing complexity, instant information availability and constant flux, systems approaches provide the opportunity of a tangible anchor of purpose and iterate learning. The five approaches outlined in the book offer a range of interchangeable tools with rigorous frameworks of application tried and tested in the ‘real world’. The frameworks of each approach form a powerful toolkit to explore the dynamics of how societies emerge, how organisations create viability, how to facilitate chains of argument through causal mapping, how to embrace a multiplicity of perspectives identifying purposeful activity and how to look for the bigger picture across multiple disciplines. Systems Approaches offers an excellent first introduction for those seeking to understand what ‘systems thinking’ is all about as well as why the tools discussed herein should be applied to management and professional practice. This book provides a practical guide, and the chapters stand alone in explaining and developing each approach. The third edition of this bestseller examines the principles of artificial intelligence and their application to engineering and science, as well as techniques for developing intelligent systems to solve practical problems. Covering the full spectrum of intelligent systems techniques, it incorporates knowledge-based systems, computational intellige Smart grids are for everyone but require the vision and investment plans for grid modernization. This document provides some practical elements on how to develop a smart grid vision and investment plan with a focus on the distribution side and also briefly discusses finance and regulatory issues. Failure

analysis is the preferred method to investigate product or process reliability and to ensure optimum performance of electrical components and systems. The physics-of-failure approach is the only internationally accepted solution for continuously improving the reliability of materials, devices and processes. The models have been developed from the physical and chemical phenomena that are responsible for degradation or failure of electronic components and materials and now replace popular distribution models for failure mechanisms such as Weibull or lognormal. Reliability engineers need practical orientation around the complex procedures involved in failure analysis. This guide acts as a tool for all advanced techniques, their benefits and vital aspects of their use in a reliability programme. Using twelve complex case studies, the authors explain why failure analysis should be used with electronic components, when implementation is appropriate and methods for its successful use. Inside you will find detailed coverage on: a synergistic approach to failure modes and mechanisms, along with reliability physics and the failure analysis of materials, emphasizing the vital importance of cooperation between a product development team involved the reasons why failure analysis is an important tool for improving yield and reliability by corrective actions the design stage, highlighting the ‘concurrent engineering' approach and DfR (Design for Reliability) failure analysis during fabrication, covering reliability monitoring, process monitors and package reliability reliability resting after fabrication, including reliability assessment at this stage and corrective actions a large variety of methods, such as electrical methods, thermal methods, optical methods, electron microscopy, mechanical methods, X-Ray

methods, spectroscopic, acoustical, and laser methods new challenges in reliability testing, such as its use in microsystems and nanostructures This practical yet comprehensive reference is useful for manufacturers and engineers involved in the design, fabrication and testing of electronic components, devices, ICs and electronic systems, as well as for users of components in complex systems wanting to discover the roots of the reliability flaws for their products. Donors, leaders of nonprofits, and public policy makers usually have the best of intentions to serve society and improve social conditions. But often their solutions fall far short of what they want to accomplish and what is truly needed. Moreover, the answers they propose and fund often produce the opposite of what they want over time. We end up with temporary shelters that increase homelessness, drug busts that increase drug-related crime, or food aid that increases starvation. How do these unintended consequences come about and how can we avoid them? By applying conventional thinking to complex social problems, we often perpetuate the very problems we try so hard to solve, but it is possible to think differently, and get different results. Systems Thinking for Social Change enables readers to contribute more effectively to society by helping them understand what systems thinking is and why it is so important in their work. It also gives concrete guidance on how to incorporate systems thinking in problem solving, decision making, and strategic planning without becoming a technical expert. Systems thinking leader David Stroh walks readers through techniques he has used to help people improve their efforts to end homelessness, improve public health, strengthen education, design a system for early childhood development, protect child welfare, develop rural economies, facilitate the

reentry of formerly incarcerated people into society, resolve identity-based conflicts, and more. The result is a highly readable, effective guide to understanding systems and using that knowledge to get the results you want. This is a practical, up-to-date guide to program and systems design, including how to use structured design tools. Can be used to produce reliable systems and to reduce the life-time costs on systems. Do you remember the first time you drove a car? To prepare for this you probably read the drivers manual, watched movies, practiced in your driveway, and endlessly discussed the impending event with your friends. The result - you knew a lot about the theory of driving, you just didn't know how to translate that theory into practice. Quality Management poses a similar problem to many organizations. The time has come to put Quality Management theory to use. Since the early 1980s, you may have read books and journals, attended seminars and training sessions, or watched films and videos about Quality Management. Once again you must make the jump from theory to application. Quality Management Systems: A Practical Guide for Improvement makes it possible. This book presents a model of Quality Management that combines the theoretical base of Dr. W. Edwards Deming and the practical techniques of the Japanese into a useful application. The fork shaped model includes: oThe Handle - Management's Commitment to Transformation oThe Neck - Management's Education oProng One - Daily Management oProng Two - Cross-Functional Management oProng Three - Policy Management Quality Management Systems: A Practical Guide for Improvement supplies an integrated approach that explains the theory and how to put it into practice using a step-by-step method. Single-use technology (SUT) is now

available for all processing operations within the biopharmaceutical industry. It has the potential to reduce capital costs, improve plant throughput and reduce the risk of cross-contamination. However, there are no clear guidelines to aid the end-user on implementation of these technologies into a validated, good manufacturing practice (GMP) environment. This book is the first comprehensive publication of practical considerations for each stage of the implementation process of SUT, and covers the selection, specification, design and qualification of systems to meet end-user requirements.Serving as an introduction and practical reference to this growing area of application within the biopharmaceutical industry, this handbook presents:An approach for SUT implementation within an end-users facility with examples for bioreactors, tangential-flow filtration and fill-finish systems;SUT within the context of regulatory guidance, such as ICH Q8, Q9, Q10 and GMP;Strategy for standardisation of single-use bag systems and assessment of extractables and leachables;Specifications of user requirements and design of specific SUT alongside process descriptions and flow diagrams;Strategies and tools to evaluate risk with examples of risk assessments applicable to design, processing and product quality; andQualification approach for different SUT types.With the information presented in this book, engineers, researchers and professionals involved in biopharmaceuticals will be better prepared to plan and make effective decisions to design and implement SUT. bull; Written by expert practitioners who have hands-on experience solving real-world problems for large corporations bull; Helps enterprise architects make sense of data, systems, software, services, product lines, methodologies, and much

more bull; Provides explanation of theory and implementation with real-world business examples to support key points This book provides a clear, easy to digest overview of Quality Management Systems (QMS). Critically, it offers the reader an explanation of the International Standards Organization's (ISO) requirement that in future all new and existing Management Systems Standards will need to have the same high-level structure, commonly referred to as Annex SL, with identical core text, as well as common terms and definitions. In addition to explaining what Annex SL entails, this book provides the reader with a guide to the principles, requirements and interoperability of Quality Management System standards, how to complete internal and external management reviews, third-party audits and evaluations, as well as how to become an ISO Certified Organisation once your QMS is fully established. As a simple and straightforward explanation of QMS Standards and their current requirements, this is a perfect guide for practitioners who need a comprehensive overview to put theory into practice, as well as for undergraduate and postgraduate students studying quality management as part of broader Operations and Management courses. A comprehensive and accessible handbook for process steam systems The revised second edition of Process Steam Systems: A Practical Guide for Operators, Maintainers, Designers, and Educators delivers a practical guide to ensuring steam systems are properly and efficiently designed, operated, and maintained. The book provides comprehensive information designed to improve process steam system knowledge, reliability, and integration into current manufacturing processes. The most up-to-date version of this volume includes brand-new coverage of current

codes, sustainability measures, and updated applications. Heat transfer theory and thermodynamics are tied into practical applications with new practice problems ideal for both professionals seeking to improve their skills and engineers-in training. Readers will also find: Thorough design criteria for process steam systems, complete with detailed illustrations for piping and controls An entirely new chapter on the history of steam systems, including the evolution of the ASME code and boiler accidents Revised coverage of current NFPA, ASME, CSD-1, FM, and building codes, as well as new insurance requirements relevant to practitioners in the industry Expansive design guidance for steam system efficiency upgrades Perfect for operations and maintenance staff at manufacturing, healthcare, and commercial laundries, Process Steam Systems: A Practical Guide for Operators, Maintainers, Designers, and Educators will also earn a place in the libraries of consulting engineers and engineering students with an interest in process manufacturing. When you invest in expensive technology and systems, you want to get the most out of them. Process improvement has been used for years as an effective strategy to reduce costs, shorten cycle times, improve quality, and increase user satisfaction in other areas of business such as Quality, Manufacturing, and Engineering. While there are many books a Systems development is the process of creating and maintaining information systems, including hardware, software, data, procedures and people. It combines technical expertise with business knowledge and management skill. This practical book provides a comprehensive introduction to the topic and can also be used as a handy reference guide. It discusses key elements of systems development and is the only textbook that supports the

BCS Certificate in Systems Development. Imagine if we were using the same medical techniques today that were used during the Industrial Revolution, including the practice of bloodletting using leeches. Medicine has come a long way since then. So why do organizations and corporations cling to management techniques that are just as obsolete as the bleed-and-leech model? In a global workplace that is more diverse and filled with entirely new challenges, now is the time for organizations to evolve to a more effective style of leadership and project management. A roadmap for leading projects and groups, Moving from Project Management to Project Leadership: A Practical Guide to Leading Groups covers the theory, strategy, and tactics that create high-performing teams and organizations. The first half of the book delineates the theories and practical knowledge required to be an extraordinarily effective leader. It defines what it is, exactly, that you need to do to be the best leader you can be. The second half of the book provides the tools and processes required to put that knowledge into place. The author explores the theory that it's all about the communication. By paying close attention to organizational clarity and the way messages are transmitted within your organization, you will find new ways of empowering people while increasing efficiency — something the old management style can rarely boast. If project leadership is the main thesis of this book, the power of effective top-down communication is the tune you'll be humming after putting this book down. A Practical Guide to Geometric Regulation for Distributed Parameter Systems provides an introduction to geometric control design methodologies for asymptotic tracking and disturbance rejection of infinite-dimensional systems.

The book also introduces several new control algorithms inspired by geometric invariance and asymptotic attraction for a wide range of dynamical control systems. The first part of the book is devoted to regulation of linear systems, beginning with the mathematical setup, general theory, and solution strategy for regulation problems with bounded input and output operators. The book then considers the more interesting case of unbounded control and sensing. Mathematically, this case is more complicated and general theorems in this area have become available only recently. The authors also provide a collection of interesting linear regulation examples from physics and engineering. The second part focuses on regulation for nonlinear systems. It begins with a discussion of theoretical results, characterizing solvability of nonlinear regulator problems with bounded input and output operators. The book progresses to problems for which the geometric theory based on center manifolds does not directly apply. The authors show how the idea of attractive invariance can be used to solve a series of increasingly complex regulation problems. The book concludes with the solutions of challenging nonlinear regulation examples from physics and engineering.