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The development of radio-frequency electromagnetic fields for wireless data transmission has presented several new opportunities for sharing, tracking, and reading digital information in various industries. RFID Technology Integration for Business Performance Improvement presents emerging research surrounding the use and value of Radio Frequency Identification (RFID) technology for cost reduction, supply chain improvement, inventory management, and partner relationship management. This publication is ideal for use by business managers, researchers, academics, and advanced-level students seeking research on the management strategies, operational techniques, opportunities, and challenges of implementing and using this new technology in a business setting. A practical guide to all key the elements of pharmaceuticals and biotech manufacturing and design Engineers working in the pharmaceutical and biotech industries are routinely called upon to handle operational issues outside of their fields of expertise. Traditionally the competencies required to fulfill those tasks were achieved piecemeal, through years of self-teaching and on-the-job experience—until now. Practical Pharmaceutical Engineering provides readers with the technical information and tools needed to deal with most common engineering issues that can arise in the course of day-to-day operations of pharmaceutical/biotech research and manufacturing. Engineers working

in pharma/biotech wear many hats. They are involved in the conception, design, construction, and operation of research facilities and manufacturing plants, as well as the scale-up, manufacturing, packaging, and labeling processes. They have to implement FDA regulations, validation assurance, quality control, and Good Manufacturing Practices (GMP) compliance measures, and to maintain a high level of personal and environmental safety. This book provides readers from a range of engineering specialties with a detailed blueprint and the technical knowledge needed to tackle those critical responsibilities with confidence. At minimum, after reading this book, readers will have the knowledge needed to constructively participate in contractor/user briefings. Provides pharmaceutical industry professionals with an overview of how all the parts fit together and a level of expertise that can take years of on-the-job experience to acquire Addresses topics not covered in university courses but which are crucial to working effectively in the pharma/biotech industry Fills a gap in the literature, providing important information on pharmaceutical operation issues required for meeting regulatory guidelines, plant support design, and project engineering Covers the basics of HVAC systems, water systems, electric systems, reliability, maintainability, and quality assurance, relevant to pharmaceutical engineering Practical Pharmaceutical Engineering is an indispensable “tool of the trade” for chemical engineers, mechanical engineers, and pharmaceutical engineers employed by pharmaceutical and biotech companies, engineering firms, and consulting firms. It also is a must-read for engineering students, pharmacy students, chemistry students, and others considering a career in pharmaceuticals. Describes how patterns of information, knowledge, and cultural production are changing. The author shows that the way information and knowledge are made available can either limit or enlarge the ways people create and express themselves. He describes the range of legal and policy choices that confront. Understand test automation and implement it in Web, Mobile, and APIs effectively Key Features Learn how to automate your tests with the help of practical examples Understand how to bridge the gap between testing and test automation Explore test automation

strategies for different platforms

Book Description This book helps you build a better understanding of test automation and aids in bridging the gap between testing and test automation. The book has been divided into three sections with the first section focusing on preparing you for testing and test automation fundamentals. By the end of this section, you'll have an understanding of some common automation terms, definitions, and roles. The second section covers the practical implementation of test automation for mobile, web, API and performance. The third section will help you understand how test automation works with CI/CD, and explore the common issues and pitfalls when executing test automation. By the end of this book, you'll have a better understanding of automation, addressing the common pain points and best practices around test automation.

What you will learn

- Gain a solid understanding of test automation
- Understand how automation fits into a test strategy
- Explore essential design patterns for test automation
- Design and implement highly reliable automated tests
- Understand issues and pitfalls when executing test automation
- Discover the commonly used test automation tools/frameworks

Who this book is for This book is for manual testers who want to enter the field of test automation and developers who want to learn more about test automation.

This book contains the refereed proceedings of the 15th International Conference on Business Information Systems, BIS 2012, held in Vilnius, Lithuania, in May 2012. The 26 revised full papers were carefully reviewed and selected from 70 submissions. They are grouped into nine sessions on business process discovery, business process verification, service architectures, collaborative BIS, data management, Web search applications, BIS in finance, decision support, and specific BIS issues. The volume is completed by an invited paper on "Information Systems and Business and Information Systems Engineering." This book constitutes the refereed conference proceedings of the 17th IFIP WG 6.11 Conference on e-Business, e-Services and e-Society, I3E 201, held in Kuwait City, Kuwait, in October/November 2018. The 65 revised full papers presented were carefully reviewed and selected from 99 submissions. Topics of interest include, amongst others, the following: social media; information

systems; marketing and communications; management and operations; public administration; economics, sociology, and psychology; e-finance, e-banking, and e-accounting; computer science and computer engineering; and teaching and learning. A TEXTBOOK OF ALGAE to the students of Botany pursuing B.Sc.(Gen.) B.Sc. (Hons), M.Sc. and related fields like Medical Botany, Pharmacy, Agricultural Botany and Horticulture. The book is amply illustrated with examples and includes several general topics like structure and reproduction of algae, lifecycles, chemical constituents, ecology of algae, economic importance of algae, etc. Type study has been given class-wise, for instance Chlorophyceae, Xanthophyceae, Bacillariophyceae, Phaeophyceae, Rhodophyceae and Myxophyceae. Several techniques in algae, glossary of algae terms and life cycles of different algae are included in the appendices. There is substantial interest in research in developing countries, especially in the use, implementation and development of information technology and systems. Many researchers have been moving toward an understanding of indigenous social and cultural structures and how they influence the use and development of information systems. E-Commerce and Cultural Values addresses these issues and brings together scholars to share their expertise on different aspects of the social side of e-Commerce and information systems and how they impact the cultural values of a society. An executive's transition into any leadership role can be a challenge. Such transitions do not always go smoothly, and the negative consequences can be significant. This is particularly so for Chief Information Officers (CIOs), as the role has evolved significantly over the years yet remains deeply ambiguous. This is despite information and technology moving from the periphery of an organization to a fundamental driver of innovation and competitive advantage. This book is to help the newly appointed CIO "take charge": the process of learning and taking action that the newly appointed CIO goes through until s/he has mastered the new assignment in sufficient depth to be effective in the role. This book provides keen insights into the challenges faced by today's CIOs while transitioning into a new role and enlightens readers on how to navigate the organizational environment in order to implement necessary changes.

With plenty of practical tools and insights it will help you to: • Decide how best to approach the job • Prioritize the first areas of the business you should attend to • Draw up your goals for the first few weeks and months into the role • Find out if there are there any decisions that you can postpone making Based on over 200 interviews with CIOs, CxOs, and recruiters, this book offers readers guidance on how to take on the role of a business executive with special responsibility for information and technology, with ten key prescriptions to maximize success. Charge density analysis of materials provides a firm basis for the evaluation of the properties of materials. The design and engineering of a new combination of metals requires a firm knowledge of intermolecular features. Recent advances in technology and high-speed computation have made the crystal X-ray diffraction technique a unique tool for the determination of charge density distribution in molecular crystal. Methods have been developed to make experimental probes capable of unraveling the features of charge densities in the intra- and inter-molecular regions of crystal structures. In *Metal and Alloy Bonding - An Experimental Analysis*, the structural details of materials are elucidated with the X-ray diffraction technique. Analyses of the charge density and the local and average structure are given to reveal the structural properties of technologically important materials. Readers will gain a new understanding of the local and average structure of existing materials. The electron density, bonding, and charge transfer studies in *Metal and Alloy Bonding - An Experimental Analysis* contain useful information for researchers in the fields of physics, chemistry, materials science, and metallurgy. The properties described in these studies can contribute to the successful engineering of these technologically important materials. Introductory college text with emphasis on unit operation. While a typical project manager's responsibility and accountability are both limited to a project with a clear start and end date, IT managers are responsible for an ongoing, ever-changing process for which they must adapt and evolve to stay updated, dependable, and secure in their field. *Professional Advancements and Management Trends in the IT Sector* offers the latest managerial trends within the

field of information technology management. By collecting research from experts from around the world, in a variety of sectors and levels of technical expertise, this volume offers a broad variety of case studies, best practices, methodologies, and research within the field of information technology management. It will serve as a vital resource for practitioners and academics alike. Uniquely reflects an engineering view to social systems in a wide variety of contexts of application

Social Systems Engineering: The Design of Complexity brings together a wide variety of application approaches to social systems from an engineering viewpoint. The book defines a social system as any complex system formed by human beings. Focus is given to the importance of systems intervention design for specific and singular settings, the possibilities of engineering thinking and methods, the use of computational models in particular contexts, and the development of portfolios of solutions. Furthermore, this book considers both technical, human and social perspectives, which are crucial to solving complex problems. **Social Systems Engineering: The Design of Complexity** provides modelling examples to explore the design aspect of social systems. Various applications are explored in a variety of areas, such as urban systems, health care systems, socio-economic systems, and environmental systems. It covers important topics such as organizational design, modelling and intervention in socio-economic systems, participatory and/or community-based modelling, application of systems engineering tools to social problems, applications of computational behavioral modeling, computational modelling and management of complexity, and more. Highlights an engineering view to social systems (as opposed to a “scientific” view) that stresses the importance of systems intervention design for specific and singular settings Divulges works where the design, re-design, and transformation of social systems constitute the main aim, and where joint considerations of both technical and social perspectives are deemed important in solving social problems Features an array of applied cases that illustrate the application of social systems engineering in different domains

Social Systems Engineering: The Design of Complexity is an excellent text for academics and graduate students in

engineering and social science—specifically, economists, political scientists, anthropologists, and management scientists with an interest in finding systematic ways to intervene and improve social systems.

International Federation for Information Processing The IFIP series publishes state-of-the-art results in the sciences and technologies of information and communication. The scope of the series includes: foundations of computer science; software theory and practice; education; computer applications in technology; communication systems; systems modeling and optimization; information systems; computers and society; computer systems technology; security and protection in information processing systems; artificial intelligence; and human-computer interaction. Proceedings and post-proceedings of referred international conferences in computer science and interdisciplinary fields are featured. These results often precede journal publication and represent the most current research. The principal aim of the IFIP series is to encourage education and the dissemination and exchange of information about all aspects of computing. For more information about the 300 other books in the IFIP series, please visit springeronline.com. For more information about IFIP, please visit www.ifip.or.at.

Information modeling plays an important role in every level of the enterprise information system's architecture. Modeling allows organizations to adapt and become more efficient, helping top managers and engineers outline tactics to reach strategic objectives, understand organizational needs, and design information systems that are aligned with business goals. *New Perspectives on Information Systems Modeling and Design* is an essential reference source that discusses organizational adaptation through the integration of new information technologies into existing processes and underlying supporting applications. Featuring research on topics such as application integration, change management, and mobile process activities, this book is ideally designed for managers, researchers, system developers, entrepreneurs, graduate-level students, business professionals, information system engineers, and academicians seeking coverage on emerging technological developments and practical solutions for system modeling and design. This book comprises the peer-

reviewed proceedings of the International Conference on Communications, Signal Processing and VLSI (IC2SV) 2019. It explores the recent advances in the fields of signal and image processing, wireless and mobile communications, embedded systems, VLSI, microwave, and antennas. The contents provide insights into present technological challenges and discusses the emerging applications of different imaging techniques and communications systems. Given the range of topics covered, this book can be useful for students as well as researchers interested in the area of communications, signal processing, and VLSI technologies. Increasingly, information technology governance is being considered an integral part of corporate governance. There has been a rapid increase in awareness and adoption of IT governance as well as the desire to conform to national governance requirements to ensure that IT is aligned with the objectives of the organization. **Information Technology Governance and Service Management: Frameworks and Adaptations** provides an in-depth view into the critical contribution of IT service management to IT governance, and the strategic and tactical value provided by effective service management. A must-have resource for academics, students, and practitioners in fields affected by IT in organizations, this work gathers authoritative perspectives on the state of research on organizational challenges and benefits in current IT governance frameworks, adoption, and incorporation. A new edition of a bestselling industrial and systems engineering reference, **Handbook of Industrial and Systems Engineering, Second Edition** provides students, researchers, and practitioners with easy access to a wide range of industrial engineering tools and techniques in a concise format. This edition expands the breadth and depth of coverage, emphasizing new systems engineering tools, techniques, and models. See **What's New in the Second Edition: Section covering safety, reliability, and quality Section on operations research, queuing, logistics, and scheduling Expanded appendix to include conversion factors and engineering, systems, and statistical formulae Topics such as control charts, engineering economy, health operational efficiency, healthcare systems, human systems integration, Lean systems, logistics transportation, manufacturing**

systems, material handling systems, process view of work, and Six Sigma techniques. The premise of the handbook remains: to expand the breadth and depth of coverage beyond the traditional handbooks on industrial engineering. The book begins with a general introduction with specific reference to the origin of industrial engineering and the ties to the Industrial Revolution. It covers the fundamentals of industrial engineering and the fundamentals of systems engineering. Building on this foundation, it presents chapters on manufacturing, production systems, and ergonomics, then goes on to discuss economic and financial analysis, management, information engineering, and decision making. Two new sections examine safety, reliability, quality, operations research, queuing, logistics, and scheduling. The book provides an updated collation of the body of knowledge of industrial and systems engineering. The handbook has been substantively expanded from the 36 seminal chapters in the first edition to 56 landmark chapters in the second edition. In addition to the 20 new chapters, 11 of the chapters in the first edition have been updated with new materials. Filling the gap that exists between the traditional and modern practice of industrial and systems engineering, the handbook provides a one-stop resource for teaching, research, and practice. This book presents a state-of-the-art review of recent advances in the recycling of spent lithium-ion batteries. The topics covered include: introduction to the structure of lithium-ion batteries; development of battery-powered electric vehicles; potential environmental impact of spent lithium-ion batteries; pretreatment of spent lithium-ion batteries for recycling processing; pyrometallurgical processing for recycling spent lithium-ion batteries; hydrometallurgical processing for recycling spent lithium-ion batteries; direct processing for recycling spent lithium-ion batteries; high value-added products from recycling of spent lithium-ion batteries; and effects of recycling of spent lithium-ion batteries on environmental burdens. The book provides an essential reference resource for professors, researchers, and policymakers in academia, industry, and government around the globe. Chaos Engineering teaches you to design and execute controlled experiments that uncover hidden problems. Summary Auto engineers test

the safety of a car by intentionally crashing it and carefully observing the results. Chaos engineering applies the same principles to software systems. In **Chaos Engineering: Site reliability through controlled disruption**, you'll learn to run your applications and infrastructure through a series of tests that simulate real-life failures. You'll maximize the benefits of chaos engineering by learning to think like a chaos engineer, and how to design the proper experiments to ensure the reliability of your software. With examples that cover a whole spectrum of software, you'll be ready to run an intensive testing regime on anything from a simple WordPress site to a massive distributed system running on Kubernetes. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Can your network survive a devastating failure? Could an accident bring your day-to-day operations to a halt? Chaos engineering simulates infrastructure outages, component crashes, and other calamities to show how systems and staff respond. Testing systems in distress is the best way to ensure their future resilience, which is especially important for complex, large-scale applications with little room for downtime. About the book Chaos Engineering teaches you to design and execute controlled experiments that uncover hidden problems. Learn to inject system-shaking failures that disrupt system calls, networking, APIs, and Kubernetes-based microservices infrastructures. To help you practice, the book includes a downloadable Linux VM image with a suite of preconfigured tools so you can experiment quickly—without risk. What's inside Inject failure into processes, applications, and virtual machines Test software running on Kubernetes Work with both open source and legacy software Simulate database connection latency Test and improve your team's failure response About the reader Assumes Linux servers. Basic scripting skills required. About the author Mikolaj Pawlikowski is a recognized authority on chaos engineering. He is the creator of the Kubernetes chaos engineering tool PowerfulSeal, and the networking visibility tool Goldpinger. Table of Contents 1 Into the world of chaos engineering PART 1 - CHAOS ENGINEERING FUNDAMENTALS 2 First cup of chaos and blast radius 3 Observability

4 Database trouble and testing in production PART 2 - CHAOS ENGINEERING IN ACTION 5 Poking Docker 6 Who you gonna call? Syscall-busters! 7 Injecting failure into the JVM 8 Application-level fault injection 9 There's a monkey in my browser! PART 3 - CHAOS ENGINEERING IN KUBERNETES 10 Chaos in Kubernetes 11 Automating Kubernetes experiments 12 Under the hood of Kubernetes 13 Chaos engineering (for) people

This book explores how agile development practices, in particular pair programming, code review and automated testing, help software development teams to perform better. Agile software engineering has become the standard software development paradigm over the last decade, and the insights provided here are taken from a large-scale survey of 80 professional software development teams working at SAP SE in Germany. In addition, the book introduces a novel measurement tool for assessing the performance of software development teams. No previous study has researched this topic with a similar data set comprising insights from more than 450 professional software engineers.

Electrical Circuit Theory and Technology is a fully comprehensive text for courses in electrical and electronic principles, circuit theory and electrical technology. The coverage takes students from the fundamentals of the subject, to the completion of a first year degree level course. Thus, this book is ideal for students studying engineering for the first time, and is also suitable for pre-degree vocational courses, especially where progression to higher levels of study is likely. John Bird's approach, based on 700 worked examples supported by over 1000 problems (including answers), is ideal for students of a wide range of abilities, and can be worked through at the student's own pace. Theory is kept to a minimum, placing a firm emphasis on problem-solving skills, and making this a thoroughly practical introduction to these core subjects in the electrical and electronic engineering curriculum. This revised edition includes new material on transients and Laplace transforms, with the content carefully matched to typical undergraduate modules. Free Tutor Support Material including full worked solutions to the assessment papers featured in the book will be available at <http://textbooks.elsevier.com/>. Material is only

available to lecturers who have adopted the text as an essential purchase. In order to obtain your password to access the material please follow the guidelines in the book. Though project management can be traced back thousands of years, it is only recently that organizations have begun to apply systematic and scientific tools and techniques to manage complex projects. Recently, researchers and practitioners have adapted different academic disciplines to contribute to the body of knowledge in project management. Such disciplines as network scheduling techniques, decision-making tools, resource allocations and optimization approaches come from the Management Science discipline. Organizational dynamics theories provide insight and recognize the benefits of project driven organizations. Supply chain management and business process outsourcing have also impacted organizational effectiveness and attitude on managing projects. Project management is greatly affected by allied disciplines and in return, it influences them. Therefore, innovative theories, trends and challenges discovered through investigating allied disciplines of project management have important implications and allocations in the future of project management. Impact on Project Management of Allied Disciplines is a collection of academic studies related to trends in allied disciplines of project management and how they might significantly impact project management in the future. Table of Contents: I.IntroductionII.Project Management Research Trends of Allied DisciplinesIII.Analyzing Project Management Research Trends from Eight Allied DisciplinesIV.The Future of Project Management and Allied DisciplinesV.ReferencesVI.Appendices Sustaining a competitive edge in today's business world requires innovative approaches to product, service, and management systems design and performance. Advances in computing technologies have presented managers with additional challenges as well as further opportunities to enhance their business models. Software Engineering for Enterprise System Agility: Emerging Research and Opportunities is a collection of innovative research that identifies the critical technological and management factors in ensuring the agility of business systems and investigates process improvement and optimization through software development. Featuring

coverage on a broad range of topics such as business architecture, cloud computing, and agility patterns, this publication is ideally designed for business managers, business professionals, software developers, academicians, researchers, and upper-level students interested in current research on strategies for improving the flexibility and agility of businesses and their systems. As the field of information technology continues to grow and expand, it impacts more and more organizations worldwide. The leaders within these organizations are challenged on a continuous basis to develop and implement programs that successfully apply information technology applications. This is a collection of unique perspectives on the issues surrounding IT in organizations and the ways in which these issues are addressed. This valuable book is a compilation of the latest research in the area of IT utilization and management.

About the Book: The textbook on Pharmaceutical Biotechnology provides comprehensively the fundamental concepts and principles in Biotechnology to expatiate and substantiate its numerous modern applications with regard to the spectacular development in the Pharmaceutical Industry. In a broader perspective, the students studying Biotechnology at undergraduate and postgraduate levels shall be grossly benefited by its well-planned, systematically developed, structured, illustrated, expanded, elaborated, and profusely exemplified subject matter. It essentially comprises five major chapters, name. This book provides essential insights on the adoption of modern software engineering practices at large companies producing software-intensive systems, where hundreds or even thousands of engineers collaborate to deliver on new systems and new versions of already deployed ones. It is based on the findings collected and lessons learned at the Software Center (SC), a unique collaboration between research and industry, with Chalmers University of Technology, Gothenburg University and Malmö University as academic partners and Ericsson, AB Volvo, Volvo Car Corporation, Saab Electronic Defense Systems, Grundfos, Axis Communications, Jeppesen (Boeing) and Sony Mobile as industrial partners. The 17 chapters present the “Stairway to Heaven” model, which represents the typical evolution path companies move through as they

develop and mature their software engineering capabilities. The chapters describe theoretical frameworks, conceptual models and, most importantly, the industrial experiences gained by the partner companies in applying novel software engineering techniques. The book's structure consists of six parts. Part I describes the model in detail and presents an overview of lessons learned in the collaboration between industry and academia. Part II deals with the first step of the Stairway to Heaven, in which R&D adopts agile work practices. Part III of the book combines the next two phases, i.e., continuous integration (CI) and continuous delivery (CD), as they are closely intertwined. Part IV is concerned with the highest level, referred to as "R&D as an innovation system," while Part V addresses a topic that is separate from the Stairway to Heaven and yet critically important in large organizations: organizational performance metrics that capture data, and visualizations of the status of software assets, defects and teams. Lastly, Part VI presents the perspectives of two of the SC partner companies. The book is intended for practitioners and professionals in the software-intensive systems industry, providing concrete models, frameworks and case studies that show the specific challenges that the partner companies encountered, their approaches to overcoming them, and the results. Researchers will gain valuable insights on the problems faced by large software companies, and on how to effectively tackle them in the context of successful cooperation projects. "This technological manual explores how software engineering principles can be used in tandem with software development tools to produce economical and reliable software that is faster and more accurate. Tools and techniques provided include the Unified Process for GIS application development, service-based approaches to business and information technology alignment, and an integrated model of application and software security. Current methods and future possibilities for software design are covered." It Is Well Known That The Applications Of Unit Operations Like Heat Transfer, Evaporation, Extraction, Mixing, Filtration And A Host Of Others Are Quite Common In The Pharmaceutical Industry, Be It In The Production Of Synthetic Drugs, Biological And Microbiological Products Or In The

Manufacture Of Pharmaceutical Formulations. As Such Anyone Who Is To Look After These Manufacturing Operations Must Be Quite Knowledgeable With The Theoretical And Equipment Aspects Involved In The Relevant Unit Operations. Since A Major Involvement Of The Pharmacy Graduates Lies In The Numerous Manufacturing Operations Mentioned Above, It Is Very Much Necessary That The Subject Is Taught With A Pharmacy Orientation. There Is No Book So Far Which Has Achieved This. The Existing Books On Unit Operations Give Extensive Theory And Also Deal With A Lot Of Equipment Not Employed In The Pharmaceutical Industry. Due To A Lack Of A Pharmacy-Oriented Book In This Area, The Students And The Teachers Are Facing Difficulties In Many Ways. The Present Book Is The First One Of Its Kind On Pharmaceutical Engineering. The Special Features Of This Book Are As Follows: It Includes Theoretical And Equipment Aspects Relevant To The pharmaceutical Industry And That Too To The Extent Needed For Pharmacy Graduates And Examples From Pharmaceutical Industry Are Quoted Extensively; Solutions To A Number Of Simpler Numerical Problems Are Given. At The End Of Each Chapter, A Large Number Of Questions, Both Theoretical And Numerical, Are Given. There Is Therefore No Doubt That The Book Will Be Of Great Use Not Only To The Students But Also To The Teachers In The Subject In India And Abroad As Well. This illustrated guide to 100 of the world's most important concert halls and opera houses examines their architecture and engineering and discusses their acoustical quality as judged by conductors and music critics. The descriptions and photographs will serve as a valuable guide for today's peripatetic performers and music lovers. With technical discussions relegated to appendices, the book can be read with pleasure by anyone interested in musical performance. The photographs (specially commissioned for this book) and architectural drawings (all to the same scale) together with modern acoustical data on each of the halls provide a rich and unmatched resource on the design of halls for presenting musical performances. Together with the technical appendices, the data and drawings will serve as an invaluable reference for architects and engineers involved in the design of spaces for the

performance of music.

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