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WAREHOUSE MANAGEMENT

THE DEFINITIVE GUIDE TO IMPROVING EFFICIENCY AND MINIMIZING COSTS IN THE MODERN WAREHOUSE

Kogan Page Publishers Modern warehouses are capitalizing on cutting-edge technologies, new operating models and innovative practices to maximize their role in the wider supply chain. Understand how to successfully manage these warehouses with this bestselling guide. Warehouse Management guides the reader through all aspects of successfully managing a warehouse, its operations and distribution. This bestselling book covers an extensive range of key topics from defining the modern warehouse, detailing management processes, strategies and practices to outlining how to tackle environmental challenges to ensure a sustainable supply chain. With practical insights into how to improve operating costs, increase efficiency and reduce costs, this is a must read for optimizing warehouse performance. The fourth edition of Warehouse Management is fully updated to include up to date information across the board. The latest technologies in warehousing, such as robotics, cobots and AI, are explained and their impact is situated alongside discussions on the future of warehousing. Gwynne Richards provides expert advice with clear and easy to grasp solutions. New and updated online resources provide support to readers.

THE LOGISTICS AND SUPPLY CHAIN TOOLKIT

OVER 100 TOOLS FOR TRANSPORT, WAREHOUSING AND INVENTORY MANAGEMENT

Kogan Page Publishers The Logistics and Supply Chain Toolkit provides practical tools for warehouse, inventory and transport managers and students to help them tackle the challenges of logistics and supply chain management. It is full of practical ideas and information to optimise the management of logistics and supply chain processes. The Logistics and Supply Chain Toolkit offers solutions and plans spanning across a variety of sub-disciplines such as warehousing, logistics, supply chain management, inventory and outsourcing. Each toolkit addresses key principles within its area of discipline, providing the reader with a precision approach to be used in complex and sensitive circumstances. The toolkit presents a number of major management tools such as Fortna's Product Flow Smart Design, SMART, DMAIC and Gantt charts. General management, performance management and problem-solving tools have also been included to provide a broader, transferable scope of tools for the reader.

RISK ANALYSIS IN ENGINEERING AND ECONOMICS

CRC Press Risk Analysis in Engineering and Economics is required reading for decision making under conditions of uncertainty. The author describes the fundamental concepts, techniques, and applications of the subject in a style tailored to meet the needs of students and practitioners of engineering, science, economics, and finance. Drawing on his extensive experience in uncertainty and risk modeling and analysis, the author covers everything from basic theory and key computational algorithms to data needs, sources, and collection. He emphasizes practical use of the methods presented and carefully examines the limitations, advantages, and disadvantages of each to help readers translate the discussed techniques into real-world solutions. This Second Edition: Introduces the topic of risk finance Incorporates homeland security applications throughout Offers additional material on predictive risk management Includes a wealth of new and updated end-of-chapter problems Delivers a complementary mix of theoretical background and risk methods Brings together engineering and economics on balanced terms to enable appropriate decision making Presents performance segregation and aggregation within a risk framework Contains contemporary case studies, such as protecting hurricane-prone regions and critical infrastructure Provides 320+ tables and figures, over 110 diverse examples, numerous end-of-book references, and a bibliography Unlike the classical books on reliability and risk management, Risk Analysis in Engineering and Economics, Second Edition relates underlying concepts to everyday applications, ensuring solid understanding and use of the methods of risk analysis.

THE SECURITY RISK ASSESSMENT HANDBOOK

A COMPLETE GUIDE FOR PERFORMING SECURITY RISK ASSESSMENTS, SECOND EDITION

CRC Press The Security Risk Assessment Handbook: A Complete Guide for Performing Security Risk Assessments provides detailed insight into precisely how to conduct an information security risk assessment. Designed for security professionals and their customers who want a more in-depth understanding of the risk assessment process, this volume contains real-wor

LEES' LOSS PREVENTION IN THE PROCESS INDUSTRIES

HAZARD IDENTIFICATION, ASSESSMENT AND CONTROL

Elsevier Over the last three decades the process industries have grown very rapidly, with corresponding increases in the quantities of hazardous materials in process, storage or transport. Plants have become larger and are often situated in or close to densely populated areas. Increased hazard of loss of life or property is continually highlighted with incidents such as Flixborough, Bhopal, Chernobyl, Three Mile Island, the Phillips 66 incident, and Piper Alpha to name but a few. The field of Loss Prevention is, and continues to, be of supreme importance to countless companies, municipalities and governments around the world, because of the trend for processing plants to become larger and often be situated in or close to densely populated areas, thus increasing the hazard of loss of life or property. This book is a detailed guidebook to defending against these, and many other, hazards. It could without exaggeration be referred to as the "bible" for the process industries. This is THE standard reference work for chemical and process engineering safety professionals. For years, it has been the most complete collection of information on the theory, practice, design elements, equipment, regulations and laws covering the field of process safety. An entire library of alternative books (and cross-referencing systems) would be needed to replace or improve upon it, but everything of importance to safety professionals, engineers and managers can be found in this all-encompassing reference instead. Frank Lees' world renowned work has been fully revised and expanded by a team of leading chemical and process engineers working under the guidance of one of the world's chief experts in this field. Sam Mannan is professor of chemical engineering at Texas A&M University, and heads the Mary Kay O'Connor Process Safety Center at Texas A&M. He received his MS and Ph.D. in chemical engineering from the University of Oklahoma, and joined the chemical engineering department at Texas A&M University as a professor in 1997. He has over 20 years of experience as an engineer, working both in industry and academia. New detail is added to chapters on fire safety, engineering, explosion hazards, analysis and suppression, and new appendices feature more recent disasters. The many thousands of references have been updated along with standards and codes of practice issued by authorities in the US, UK/Europe and internationally. In addition to all this, more regulatory relevance and case studies have been included in this edition. Written in a clear and concise style, *Loss Prevention in the Process Industries* covers traditional areas of personal safety as well as the more technological aspects and thus provides balanced and in-depth coverage of the whole field of safety and loss prevention. * A must-have standard reference for chemical and process engineering safety professionals * The most complete collection of information on the theory, practice, design elements, equipment and laws that pertain to process safety * Only single work to provide everything; principles, practice, codes, standards, data and references needed by those practicing in the field

FINANCIAL MANAGEMENT

CONTROL WEAKNESSES LIMITED CUSTOMS' ABILITY TO ENSURE THAT DUTIES WERE PROPERLY ASSESSED

DIANE Publishing Describes the internal control weaknesses that were identified regarding Customs' ability to properly assess duties, taxes, and fees related to foreign goods imported into the U.S. Customs is 1 of 10 federal agencies that was required to prepare financial statements and have them audited by June 30, 1993, as a pilot project.

EXCELLENCE IN WAREHOUSE MANAGEMENT

HOW TO MINIMISE COSTS AND MAXIMISE VALUE

John Wiley & Sons Warehouses are often seen as a necessary evil: places that stop the flow of goods and thus increase costs without adding value. But the truth is that they have a critical part to play in supply chain management, and warehouse managers should be centrally involved in the strategic aspects of any business. *Excellence in Warehouse Management* covers everything you need to know to manage warehouse operations as part of a streamlined and holistic system, fine-tuned to serve the customer and drive the bottom-line. With thinking points, self-assessment exercises and case studies Stuart Emmett challenges you to consider your own operations in a new way, and plot a course into the future.

THE SECURITY RISK ASSESSMENT HANDBOOK

A COMPLETE GUIDE FOR PERFORMING SECURITY RISK ASSESSMENTS

CRC Press *The Security Risk Assessment Handbook: A Complete Guide for Performing Security Risk Assessments* provides detailed insight into precisely how to conduct an information security risk assessment. Designed for security professionals and their customers who want a more in-depth understanding of the risk assessment process, this volume contains real-wor

SMART AND SUSTAINABLE SUPPLY CHAIN AND LOGISTICS - TRENDS, CHALLENGES, METHODS AND BEST PRACTICES

VOLUME 1

Springer Nature This book discusses the critical contemporary issues of sustainability and integration of physical and information flow. It explores the digitalization of logistics processes and the need for a more integrated and a seamless cooperation in supply chain management, which are dominant trends in business practice. Moreover, it examines how the pressure for CO2 emission reductions and more resource-efficient business models influences the organization of logistics operations on both a local and global scale, demonstrating that integrating physical and cyber systems is necessary to achieve a more environmentally friendly, safe logistics and supply chain operations. In the individual chapters, the authors discuss the new qualitative and quantitative theoretical methods and models and also analyze case studies from business practice. This book provides valuable insights for academics, Ph.D. students and practitioners wishing to deepen their understanding of logistics operations and management.

A NOVEL FUZZY RISK MATRIX BASED RISK ASSESSMENT APPROACH

Infinite Study Traditional risk assessment (RA) methodologies cannot model vagueness in risk and cannot prioritize corrective-preventive measures (CPMs) by considering effectiveness of those on risk types (RTs).

THEMES AND TRENDS IN REGULATORY REFORM

NINTH REPORT OF SESSION 2008-09, VOL. 2: ORAL AND WRITTEN EVIDENCE

The Stationery Office Themes and trends in regulatory Reform : Ninth report of session 2008-09, Vol. 2: Oral and written Evidence

BUSINESS CONTINUITY AND DISASTER RECOVERY PLANNING FOR IT PROFESSIONALS

Butterworth-Heinemann Powerful Earthquake Triggers Tsunami in Pacific. Hurricane Katrina Makes Landfall in the Gulf Coast. Avalanche Buries Highway in Denver. Tornado Touches Down in Georgia. These headlines not only have caught the attention of people around the world, they have had a significant effect on IT professionals as well. As technology continues to become more integral to corporate operations at every level of the organization, the job of IT has expanded to become almost all-encompassing. These days, it's difficult to find corners of a company that technology does not touch. As a result, the need to plan for potential disruptions to technology services has increased exponentially. That is what Business Continuity Planning (BCP) is: a methodology used to create a plan for how an organization will recover after a disaster of various types. It takes into account both security and corporate risk management tactics. There is a lot of movement around this initiative in the industry: the British Standards Institute is releasing a new standard for BCP this year. Trade shows are popping up covering the topic. * Complete coverage of the 3 categories of disaster: natural hazards, human-caused hazards, and accidental and technical hazards. * Only published source of information on the new BCI standards and government requirements. * Up dated information on recovery from cyber attacks, rioting, protests, product tampering, bombs, explosions, and terrorism.

PROCEEDINGS OF THE 21ST INTERNATIONAL CONFERENCE ON INDUSTRIAL ENGINEERING AND ENGINEERING MANAGEMENT 2014

Springer Being the premier forum for the presentation of new advances and research results in the fields of Industrial Engineering, IEEM 2014 aims to provide a high-level international forum for experts, scholars and entrepreneurs at home and abroad to present the recent advances, new techniques and applications face and face, to promote discussion and interaction among academics, researchers and professionals to promote the developments and applications of the related theories and technologies in universities and enterprises and to establish business or research relations to find global partners for future collaboration in the field of Industrial Engineering. All the goals of the international conference are to fulfill the mission of the series conference which is to review, exchange, summarize and promote the latest achievements in the field of industrial engineering and engineering management over the past year and to propose prospects and vision for the further development.

PERFORMANCE-BASED FIRE SAFETY DESIGN

CRC Press Master an Approach Based on Fire Safety Goals, Fire Scenarios, and the Assessment of Design Alternatives Performance-Based Fire Safety Design demonstrates how fire science can be used to solve fire protection problems in the built environment. It also provides an understanding of the performance-based design process, deterministic and risk-based ana

WAREHOUSING AND STORAGE

A GUIDE TO HEALTH AND SAFETY

TOLLEY'S RISK ASSESSMENT WORKBOOK SERIES: UTILITIES

Routledge Risk assessment is the key to successful management of health and safety at work. Risk assessments are carried out in order to quantify and evaluate the significance of workplace hazards so that appropriate control measures can be put in place. Usually, a written record of the assessment is required, detailing the following information: * The hazards - and how much risk is associated. * The risk - with appropriate control measures. * Deadlines - to follow-up the risk assessment to ensure the risk is managed. Failure to carry out risk assessments - punishable by law - is often due to lack of a suitable risk assessment system. Tolley's Risk Assessment Workbook - Utilities provides that system, both in the form of key background information on how to carry out a risk assessment - understanding relevant legislation and regulations - but most importantly by providing: * Checklists - highlighting key industry-specific hazards and control measures. * Questionnaires - highlighting key questions the risk assessor should ask when analysing the risk posed by the hazard. * Action Plans - to ensure the risk assessment is followed up and completed. The Workbook offers a practical risk assessment system: it shows you how to comply with the law and gives you the foundations of a logical procedure that can be understood easily, put into placed quickly where necessary and adapted to your organisation's needs. Tolley's Risk Assessment Workbooks is a series of practical Workbooks providing you with all the information you need to conduct risk assessments in industry-specific areas including: Manufacturing, Retail, Leisure, Education, Offices, and Construction. A special Risk Assessment Workbook on Stress has also been developed in order to facilitate management of this issue which is of key concern to all organisations.

SAFETY, RELIABILITY AND RISK ANALYSIS

THEORY, METHODS AND APPLICATIONS (4 VOLUMES + CD-ROM)

CRC Press Safety, Reliability and Risk Analysis. Theory, Methods and Applications contains the papers presented at the joint ESREL

(European Safety and Reliability) and SRA-Europe (Society for Risk Analysis Europe) Conference (Valencia, Spain, 22-25 September 2008). The book covers a wide range of topics, including: Accident and Incident Investigation; Crisi

FIVE STEPS TO RISK ASSESSMENT

Offers guidance for employers and self employed people in assessing risks in the workplace. This book is suitable for firms in the commercial, service and light industrial sectors.

INFOSPHERE WAREHOUSE: A ROBUST INFRASTRUCTURE FOR BUSINESS INTELLIGENCE

IBM Redbooks In this IBM® Redbooks® publication we describe and demonstrate Version 9.7 of IBM InfoSphere™ Warehouse. InfoSphere Warehouse is a comprehensive platform with all the functionality required for developing robust infrastructure for business intelligence solutions. It enables companies to access and analyze operational and historical information, whether structured or unstructured, to gain business insight for improved decision making. InfoSphere Warehouse solutions simplify the processes of developing and maintaining a data warehousing infrastructure and can significantly enhance the time to value for business analytics. The InfoSphere Warehouse platform provides a fully integrated environment built around IBM DB2® 9.7 server technology on Linux®, UNIX® and Microsoft® Windows® platforms, as well as System z®. Common user interfaces support application development, data modeling and mapping, SQL transformation, online application processing (OLAP) and data mining functionality from virtually all types of information. Composed of a component-based architecture, it extends the DB2 data warehouse with design-side tooling and runtime infrastructure for OLAP, data mining, inLine analytics and intra-warehouse data movement and transformation, on a common platform.

INFORMATICS AND CYBERNETICS IN INTELLIGENT SYSTEMS

PROCEEDINGS OF 10TH COMPUTER SCIENCE ON-LINE

Springer Nature This book constitutes the refereed proceedings of the informatics and cybernetics in intelligent systems section of the 10th Computer Science Online Conference 2021 (CSOC 2021), held online in April 2021. Modern cybernetics and computer engineering papers in the scope of intelligent systems are an essential part of actual research topics. In this book, a discussion of modern algorithms approaches techniques is held.

HEALTH AND SAFETY IN LOGISTICS

ASSESSING AND AVOIDING RISK IN WAREHOUSING AND TRANSPORTATION

Kogan Page Publishers Logistics is a complex industry that exposes employees to a whole variety of risks. These include not only accidents on the road and deaths and injuries resulting from unsafe use of forklifts, but also the consequences of poor fire safety, long-term health risks due to poor manual handling technique and problems relating to mental health. Many thousands of incidents are recorded every year. This book examines each aspect of health and safety in turn, with a focus on warehousing and transportation. Health and Safety in Logistics informs managers about potential hazards found in the industry and explains in detail how they can make the workplace as safe as possible.

PROCESS PLANT LAYOUT

Butterworth-Heinemann Process Plant Layout, Second Edition, explains the methodologies used by professional designers to layout process equipment and pipework, plots, plants, sites, and their corresponding environmental features in a safe, economical way. It is supported with tables of separation distances, rules of thumb, and codes of practice and standards. The book includes more than seventy-five case studies on what can go wrong when layout is not properly considered. Sean Moran has thoroughly rewritten and re-illustrated this book to reflect advances in technology and best practices, for example, changes in how designers balance layout density with cost, operability, and safety considerations. The content covers the 'why' underlying process design company guidelines, providing a firm foundation for career growth for process design engineers. It is ideal for process plant designers in contracting, consultancy, and for operating companies at all stages of their careers, and is also of importance for operations and maintenance staff involved with a new build, guiding them through plot plan reviews. Based on interviews with over 200 professional process plant designers Explains multiple plant layout methodologies used by professional process engineers, piping engineers, and process architects Includes advice on how to choose and use the latest CAD tools for plant layout Ensures that all methodologies integrate to comply with worldwide risk management legislation

THE LAW AND PRACTICE OF FINE ART, JEWELLERY AND SPECIE INSURANCE

Edward Elgar Publishing This comprehensive book will be essential reading for all those involved with fine art, jewellery and specie insurance. David Scully analyses the history, structure and dynamics of the global marketplace for this type of insurance, illustrating key points with real life examples to provide a practical guide to the business.

FORENSIC MENTAL HEALTH ASSESSMENT

A CASEBOOK

Oxford University Press Forensic mental health assessment (FMHA) continues to develop and expand as a specialization. Since the publication of the First Edition of Forensic Mental Health Assessment: A Casebook over a decade ago, there have been a number of significant changes in the applicable law, ethics, science, and practice that have shaped the conceptual and empirical underpinnings of FMHA. The Second Edition of Forensic Mental Health Assessment is thoroughly updated in light of the developments and changes in

the field, while still keeping the unique structure of presenting cases, detailed reports, and specific teaching points on a wide range of topics. Unlike anything else in the literature, it provides genuine (although disguised) case material, so trainees as well as legal and mental health professionals can review how high-quality forensic evaluation reports are written; it features contributions from leading experts in forensic psychology and psychiatry, providing samples of work in their particular areas of specialization; and it discusses case material in the larger context of broad foundational principles and specific teaching points, making it a valuable resource for teaching, training, and continuing education. Now featuring 50 real-world cases, this new edition covers topics including criminal responsibility, sexual offending risk evaluation, federal sentencing, capital sentencing, capacity to consent to treatment, personal injury, harassment and discrimination, guardianship, juvenile commitment, transfer and decertification, response style, expert testimony, evaluations in a military context, and many more. It will be invaluable for anyone involved in assessments for the courts, including psychologists, psychiatrists, social workers, and attorneys, as well as for FMHA courses.

PRACTICAL HANDBOOK OF WAREHOUSING

Springer Science & Business Media This is a fourth edition of a work first published in 1983. It contains the same number of chapters as the third edition, published in 1990. However, it has a substantial amount of new material. Major changes in warehousing in the last seven years have caused appropriate changes in the content of this text. Nearly three decades have passed since our first published writing about warehousing. The goal of our early writing was to develop a better understanding between the third-party warehouse operator and the user of these services. Today the emphasis has changed to a work that provides the tools that every warehouse manager needs. This book intends to be a comprehensive handbook consisting of everything we know that would help the manager of warehouses. Much of the information is based upon materials previously used in Warehousing Forum, our monthly subscription newsletter. While the work is designed primarily as a handbook for managers, it also serves as a guide for students. It is based upon my experience, both as a warehousing manager and executive, and later as a management advisor. The work is designed as a management reference for anyone involved in operating, using, constructing, or trading in industrial warehouses.

EBOOK: AUDITING AND ASSURANCE SERVICES

McGraw Hill Auditing & Assurance Services, First South African Edition, combines a genuine international perspective with South African examples and coverage of the landmark changes within the South African auditing environment. Key features include: South African content - The authors weave regionally specific content and examples throughout the text and cover the changes to the regulatory and corporate governance environment in South Africa. International perspective - Professional practice and regulation all over the world is driven by international events and initiatives. The clarified ISAs are fully integrated into the chapters with international real-world cases used to illustrate concepts and application. Systematic approach - The text gives students a deep understanding and working knowledge of fundamental auditing concepts and how they are applied. The core foundation of the text and its focus on critical judgements and decision-making processes prepare students for today's complex and dynamic audit environment. Student engagement - A student-friendly writing style and a variety of real-life examples make the text easily accessible. Each chapter ends with a comprehensive variety of materials to apply and test students' understanding of acquired knowledge.

2012 ENVIRONMENT OF CARE ESSENTIALS FOR HEALTH CARE

Joint Commission Resources

HEALTH AND ENVIRONMENTAL RISK ASSESSMENT

Elsevier Process and input-output analysis have emerged as the two principal methods of analyzing health risks of energy technologies. This book describes applications and differences between these two methods with discussions of sources of error and uncertainty, data limitations and some solutions to common problems. Its goals are to provide understanding of the strengths and weaknesses of the methods and to provide a basis for standardizing risk assessment for energy policy analysis. Sections of the book describe risk analysis and develop issues common to both the process and input-output methods, describe data bases and their limitations, discuss use of environmental models for generating environmental information not available in data bases, describe applications of the methods in case studies, and discuss the state-of-the-art of the two models and opportunities for combining them to take advantage of their relative strengths and weaknesses.

COMPUTERWORLD

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

RISK ASSESSMENT AND DECISION MAKING IN BUSINESS AND INDUSTRY

A PRACTICAL GUIDE

CRC Press Risk Assessment and Decision Making in Business and Industry: A Practical Guide presents an accessible treatment of the procedures and technologies involved in designing and building risk-assessment processes and models. Areas examined include: brokerage-house portfolio management legal decision making construction oil/gas exploration environmental assessments engineering marketing government manufacturing The entire volume is presented as a narrative, keeping statistical jargon to a minimum and explaining all concepts, techniques, and processes in a straightforward manner. The author emphasizes that the technical aspects of a risk-assessment and decision-making effort are secondary to the cultural, organizational, and interpersonal facets of establishing a framework. "Practical" is the operative term throughout the text. Risk Assessment and Decision Making in

Business and Industry: A Practical Guide enables readers who are not risk experts to effect an easy execution of the risk model building effort.

DEVELOPMENT OF AN ENVIRONMENTAL AND ECONOMIC ASSESSMENT TOOL (ENVECO TOOL) FOR FIRE EVENTS

Springer This book investigates the feasibility of developing a tool that enables fire departments to estimate the value of their services to a community in terms of environmental and financial impact. This book provides a summary of this effort, which resulted in development of a prototype tool for fire department use. The impact of fire on a community is usually measured in terms of the number of fires, human casualties, and property damage. There are, however, more subtle impacts of fire that are not so easily estimated but contribute to the measure of overall performance of the fire service in protecting a community. While environmental and economic impact assessment methodologies exist as separate systems, they generally require a high level of knowledge that is outside the scope of most fire departments. A relatively simple methodology for estimating the environmental and economic impact of fires helps communities understand the degree to which fire department activities can benefit a community's environmental and economic well-being. The scope and approach for this prototype tool is explained, including risk assessment, cost benefit analysis, life cycle assessment, integration and implementation, and sensitivity and uncertainty analysis. It includes multiple case studies and offers statistical support for future expansion of the tool. Fire service professionals will find this a useful new approach to presenting value in a community, as well as a method for examining their own financial and environmental plans.

RISK ASSESSMENT AND COST/BENEFIT ANALYSIS FOR NEW REGULATIONS

JOINT HEARINGS BEFORE THE SUBCOMMITTEE ON COMMERCE, TRADE, AND HAZARDOUS MATERIALS AND THE SUBCOMMITTEE ON HEALTH AND ENVIRONMENT OF THE COMMITTEE ON COMMERCE, HOUSE OF REPRESENTATIVES, ONE HUNDRED FOURTH CONGRESS, FIRST SESSION, ON TITLE III--H.R. 9, THE JOB CREATION AND WAGE ENHANCEMENT ACT OF 1995, FEBRUARY 1 AND 2, 1995

CHEMICAL ENGINEERING IN THE PHARMACEUTICAL INDUSTRY, ACTIVE PHARMACEUTICAL INGREDIENTS

Wiley A guide to the development and manufacturing of pharmaceutical products written for professionals in the industry, revised second edition The revised and updated second edition of Chemical Engineering in the Pharmaceutical Industry is a practical book that highlights chemistry and chemical engineering. The book's regulatory quality strategies target the development and manufacturing of pharmaceutically active ingredients of pharmaceutical products. The expanded second edition contains revised content with many new case studies and additional example calculations that are of interest to chemical engineers. The 2nd Edition is divided into two separate books: 1) Active Pharmaceutical Ingredients (API's) and 2) Drug Product Design, Development and Modeling. The active pharmaceutical ingredients book puts the focus on the chemistry, chemical engineering, and unit operations specific to development and manufacturing of the active ingredients of the pharmaceutical product. The drug substance operations section includes information on chemical reactions, mixing, distillations, extractions, crystallizations, filtration, drying, and wet and dry milling. In addition, the book includes many applications of process modeling and modern software tools that are geared toward batch-scale and continuous drug substance pharmaceutical operations. This updated second edition: • Contains 30 new chapters or revised chapters specific to API, covering topics including: manufacturing quality by design, computational approaches, continuous manufacturing, crystallization and final form, process safety • Expanded topics of scale-up, continuous processing, applications of thermodynamics and thermodynamic modeling, filtration and drying • Presents updated and expanded example calculations • Includes contributions from noted experts in the field Written for pharmaceutical engineers, chemical engineers, undergraduate and graduate students, and professionals in the field of pharmaceutical sciences and manufacturing, the second edition of Chemical Engineering in the Pharmaceutical Industry focuses on the development and chemical engineering as well as operations specific to the design, formulation, and manufacture of drug substance and products.

MANAGING RISK AND RELIABILITY OF PROCESS PLANTS

Elsevier There is much specialist material written about different elements of managing risks of hazardous industries, such as hazard identification, risk analysis, and risk management. Managing Risk and Reliability of Process Plants provides a systematic and integrated coverage of all these elements in sufficient detail for the reader to be able to pursue more detailed study of particular elements or topics from a good appreciation of the whole field. The reader would use this book to keep up to date with new developments and, if they are new to the job, to learn more about the subject. The text includes a chapter of case studies and worked examples - including examples of risk assessments, which is consistent with the approach taken throughout the book of applying real-life scenarios and approaches. * Provides a source for reasonable understanding across the whole field of risk management and risk assessment. * Focuses on the how, what, and why of risk management using a consistent and well organized writing style interspersed with case studies, examples, exercises, as well as end matter. * Fills a need in the area of risk assessment and risk management in the process and chemical engineering industry as an essential multi-audience reference/resource tool, useful to managers and students.

ACTIONABLE INTELLIGENCE

USING INTEGRATED DATA SYSTEMS TO ACHIEVE A MORE EFFECTIVE, EFFICIENT, AND ETHICAL GOVERNMENT

Springer Multifaceted social problems like disaster relief, homelessness, health care, and academic achievement gaps cannot be adequately addressed with isolated and disconnected public service agencies. The Actionable Intelligence for Social Policy model addresses the limitations to traditional approaches to American public administration.

PROJECT MANAGEMENT COMMUNICATION TOOLS

Dow Publishing LLC Project Management Communication Tools is the authoritative reference on one of the most important aspects of managing projects--project communications. Written with the project manager, stakeholder, and project team in mind, this resource provides the best practices, tips, tricks, and tools for successful project communications. This book covers: Communication Tools across all PMI Knowledge Areas and Processes Social Media and Project Management Agile Communication Tools Project Management Business Intelligence Understand the right communication tools for each stage of a project PMP Prep Questions (Communications questions only) Face to face communication Communication on virtual projects Preventing common communication problems And much more.

DOMINANT ALGORITHMS TO EVALUATE ARTIFICIAL INTELLIGENCE: FROM THE VIEW OF THROUGHPUT MODEL

Bentham Science Publishers This book describes the Throughput Model methodology that can enable individuals and organizations to better identify, understand, and use algorithms to solve daily problems. The Throughput Model is a progressive model intended to advance the artificial intelligence (AI) field since it represents symbol manipulation in six algorithmic pathways that are theorized to mimic the essential pillars of human cognition, namely, perception, information, judgment, and decision choice. The six AI algorithmic pathways are (1) Expedient Algorithmic Pathway, (2) Ruling Algorithmic Guide Pathway, (3) Analytical Algorithmic Pathway, (4) Revisionist Algorithmic Pathway, (5) Value Driven Algorithmic Pathway, and (6) Global Perspective Algorithmic Pathway. As AI is increasingly employed for applications where decisions require explanations, the Throughput Model offers business professionals the means to look under the hood of AI and comprehend how those decisions are attained by organizations. Key Features: - Covers general concepts of Artificial intelligence and machine learning - Explains the importance of dominant AI algorithms for business and AI research - Provides information about 6 unique algorithmic pathways in the Throughput Model - Provides information to create a roadmap towards building architectures that combine the strengths of the symbolic approaches for analyzing big data - Explains how to understand the functions of an AI algorithm to solve problems and make good decisions - informs managers who are interested in employing ethical and trustworthiness features in systems. Dominant Algorithms to Evaluate Artificial Intelligence: From the view of Throughput Model is an informative reference for all professionals and scholars who are working on AI projects to solve a range of business and technical problems.

RISK MANAGEMENT APPLICATIONS IN PHARMACEUTICAL AND BIOPHARMACEUTICAL MANUFACTURING

John Wiley & Sons Sets forth tested and proven risk management practices in drug manufacturing Risk management is essential for safe and efficient pharmaceutical and biopharmaceutical manufacturing, control, and distribution. With this book as their guide, readers involved in all facets of drug manufacturing have a single, expertly written, and organized resource to guide them through all facets of risk management and analysis. It sets forth a solid foundation in risk management concepts and then explains how these concepts are applied to drug manufacturing. Risk Management Applications in Pharmaceutical and Biopharmaceutical Manufacturing features contributions from leading international experts in risk management and drug manufacturing. These contributions reflect the latest research, practices, and industry standards as well as the authors' firsthand experience. Readers can turn to the book for: Basic foundation of risk management principles, practices, and applications Tested and proven tools and methods for managing risk in pharmaceutical and biopharmaceutical product manufacturing processes Recent FDA guidelines, EU regulations, and international standards governing the application of risk management to drug manufacturing Case studies and detailed examples demonstrating the use and results of applying risk management principles to drug product manufacturing Bibliography and extensive references leading to the literature and helpful resources in the field With its unique focus on the application of risk management to biopharmaceutical and pharmaceutical manufacturing, this book is an essential resource for pharmaceutical and process engineers as well as safety and compliance professionals involved in drug manufacturing.

ACCESS CONTROL, AUTHENTICATION, AND PUBLIC KEY INFRASTRUCTURE

Jones & Bartlett Publishers Access Control, Authentication, and Public Key Infrastructure provides a unique, in-depth look at how access controls protect resources against unauthorized viewing, tampering, or destruction and serves as a primary means of ensuring privacy, confidentiality, and prevention of unauthorized disclosure. Written by industry experts, this book defines the components of access control, provides a business framework for implementation, and discusses legal requirements that impact access control programs, before looking at the risks, threats, and vulnerabilities prevalent in information systems and IT infrastructures and ways of handling them. Using examples and exercises, this book incorporates hands-on activities to prepare readers to successfully put access control systems to work as well as test and manage them. The Jones & Bartlett Learning: Information Systems Security & Assurance Series delivers fundamental IT Security principles packed with real-world applications and examples for IT Security, Cybersecurity, Information Assurance, and Information Systems Security programs. Authored by Certified Information Systems Security Professionals (CISSPs), and reviewed by leading technical experts in the field, these books are current, forward-thinking resources that enable readers to solve the cybersecurity challenges of today and tomorrow.

FIRE SAFETY RISK ASSESSMENT

The Stationery Office New fire safety rules affecting all non-domestic premises in England and Wales will come into force on 1 October 2006, in accordance with the Regulatory Reform (Fire Safety) Order 2005 (S.I. 2005/1541, ISBN 0110729455). This is one of a series of 11 publications which set out recommendations and guidance for employers, managers, occupiers and owners of particular types of premises on how to carry out a fire risk assessment and how to identify general fire precautions required (including fire detection and warning systems, firefighting equipment, escape routes, signs and training). This guide covers premises where the main use of the building or part of the building is a factory or warehouse. It will be relevant for premises where flammable materials and substances are handled and stored, and may also be applicable where the premises adjoin other complexes (although co-operation with other

managers will be required as part of an integrated risk assessment for the complex). Another guide in this series covers offices and shops (ISBN 1851128158).