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CHEMICAL ENGINEERING DESIGN

PRINCIPLES, PRACTICE AND ECONOMICS OF PLANT AND PROCESS DESIGN

Elsevier **Chemical Engineering Design, Second Edition**, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. New discussion of conceptual plant design, flowsheet development and revamp design Significantly increased coverage of capital cost estimation, process costing and economics New chapters on equipment selection, reactor design and solids handling processes New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography Increased coverage of batch processing, food, pharmaceutical and biological processes All equipment chapters in Part II revised and updated with current information Updated throughout for latest US codes and standards, including API, ASME and ISA design codes and ANSI standards Additional worked examples and homework problems The most complete and up to date coverage of equipment selection 108 realistic commercial design projects from diverse industries A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website Extensive instructor resources: 1170 lecture slides plus fully worked solutions manual available to adopting instructors

TRAFFIC SIGNS MANUAL

CHAPTER 3: REGULATORY SIGNS

Traffic signs manual **This publication supersedes the 2008 edition (ISBN 9780115529252)**

TRAFFIC SIGNS MANUAL

CHAPTER 4: WARNING SIGNS

This publication supersedes the 2013 edition (ISBN 9780115532245)

THE CAR HACKER'S HANDBOOK

A GUIDE FOR THE PENETRATION TESTER

[No Starch Press](#) Modern cars are more computerized than ever. Infotainment and navigation systems, Wi-Fi, automatic software updates, and other innovations aim to make driving more convenient. But vehicle technologies haven't kept pace with today's more hostile security environment, leaving millions vulnerable to attack. The Car Hacker's Handbook will give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle's communication network, you'll learn how to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, The Car Hacker's Handbook will show you how to: -Build an accurate threat model for your vehicle -Reverse engineer the CAN bus to fake engine signals -Exploit vulnerabilities in diagnostic and data-logging systems -Hack the ECU and other firmware and embedded systems -Feed exploits through infotainment and vehicle-to-vehicle communication systems -Override factory settings with performance-tuning techniques -Build physical and virtual test benches to try out exploits safely If you're curious about automotive security and have the urge to hack a two-ton computer, make The Car Hacker's Handbook your first stop.

ENGINEERING MATERIALS 2

AN INTRODUCTION TO MICROSTRUCTURES, PROCESSING AND DESIGN

[Elsevier](#) Provides a thorough explanation of the basic properties of materials; of how these can be controlled by processing; of how materials are formed, joined and finished; and of the chain of reasoning that leads to a successful choice of material for a particular application. The materials covered are grouped into four classes: metals, ceramics, polymers and composites. Each class is studied in turn, identifying the families of materials in the class, the microstructural features, the processes or treatments used to obtain a particular structure and their design applications. The text is supplemented by practical case studies and example problems with answers, and a valuable programmed learning course on phase diagrams.

SPEECH & LANGUAGE PROCESSING

[Pearson Education India](#)

CUSTOMIZING AND EXTENDING IBM CONTENT NAVIGATOR

[IBM Redbooks](#) IBM® Content Navigator provides a unified user interface for your Enterprise Content Management (ECM) solutions. It also provides a robust development platform so you can build customized user interface and applications to deliver value and an intelligent, business-centric experience. This IBM Redbooks® publication guides you through the Content Navigator platform, its architecture, and the available programming interfaces. It describes how you can configure and customize the user interface with the administration tools provided, and how you can customize and extend Content Navigator using available development options with sample code. Specifically, the book shows how to set up a development environment, and develop plug-ins that add an action, service, and feature to the user interface. Customization topics include implementing request and response filters, external data services (EDS), creating custom step processors, and using Content Navigator widgets in other applications. This book also covers mobile development, viewer customization, component deployment, and debugging and troubleshooting. This book is intended for IT architects, application designers and developers working with IBM Content Navigator and IBM ECM products. It offers a high-level description of how to extend and customize IBM Content Navigator and also more technical details of how to do implementations with sample code.

CYCLE INFRASTRUCTURE DESIGN

[Stationery Office/Tso](#) Encouraging more people to cycle is increasingly being seen as a vital part of any local authority plan to tackle congestion, improve air quality, promote physical activity and improve accessibility. This design guide brings together and updates guidance previously available in a number of draft Local Transport Notes and other documents. Although the focus is the design of cycle infrastructure, parts of its advice are equally appropriate to improving conditions for pedestrians. Individual chapters cover: general design

parameters; signing issues; network management; reducing vehicle speeds on cycle routes; bus and tram routes; cycle lanes; off-road cycle routes; junctions; cycle track crossings; cycle parking; public transport integration. A list of references and an appendix of related publications complete the book. It is hoped that, by bringing together relevant advice in a single document, this guide will make it easier for local authorities to decide what provision, if any, is required to encourage more people to cycle.

THE SUDS MANUAL

This guidance document is aimed at providing comprehensive advice on the implementation of SUDS in the UK. It provides information for all aspects of the life cycle of SUDS, from initial planning, design through to construction and their management in the context of the current regulatory framework.

THE HEDGEHOG AND THE FOX

AN ESSAY ON TOLSTOY'S VIEW OF HISTORY - SECOND EDITION

Princeton University Press "The fox knows many things, but the hedgehog knows one big thing." This ancient Greek aphorism, preserved in a fragment from the poet Archilochus, describes the central thesis of Isaiah Berlin's masterly essay on Leo Tolstoy and the philosophy of history, the subject of the epilogue to War and Peace. Although there have been many interpretations of the adage, Berlin uses it to mark a fundamental distinction between human beings who are fascinated by the infinite variety of things and those who relate everything to a central, all-embracing system. Applied to Tolstoy, the saying illuminates a paradox that helps explain his philosophy of history: Tolstoy was a fox, but believed in being a hedgehog. One of Berlin's most celebrated works, this extraordinary essay offers profound insights about Tolstoy, historical understanding, and human psychology. This new edition features a revised text that supplants all previous versions, English translations of the many passages in foreign languages, a new foreword in which Berlin biographer Michael Ignatieff explains the enduring appeal of Berlin's essay, and a new appendix that provides rich context, including excerpts from reviews and Berlin's letters, as well as a startling new interpretation of Archilochus's epigram.

METHODS OF BEHAVIOR ANALYSIS IN NEUROSCIENCE

CRC Press Using the most well-studied behavioral analyses of animal subjects to promote a better understanding of the effects of disease and the effects of new therapeutic treatments on human cognition, Methods of Behavior Analysis in Neuroscience provides a reference manual for molecular and cellular research scientists in both academia and the pharmaceutical

TRAFFIC SIGNS MANUAL

CHAPTER 6: TRAFFIC CONTROL

BEGINNING SOFTWARE ENGINEERING

John Wiley & Sons A complete introduction to building robust and reliable software Beginning Software Engineering demystifies the software engineering methodologies and techniques that professional developers use to design and build robust, efficient, and consistently reliable software. Free of jargon and assuming no previous programming, development, or management experience, this accessible guide explains important concepts and techniques that can be applied to any programming language. Each chapter ends with exercises that let you test your understanding and help you elaborate on the chapter's main concepts. Everything you need to understand waterfall, Sashimi, agile, RAD, Scrum, Kanban, Extreme Programming, and many other development models is inside! Describes in plain English what software engineering is Explains the roles and responsibilities of team members working on a software engineering project Outlines key phases that any software engineering effort must handle to produce applications that are powerful and dependable Details the most popular software development methodologies and explains the different ways they handle critical development tasks Incorporates exercises that expand upon each chapter's main ideas Includes an extensive glossary of software engineering terms

TECHNICAL SPECIFICATIONS FOR OXYGEN CONCENTRATORS

WHO MEDICAL DEVICE TECHNICAL SERIES

World Health Organization The purpose of this guidance document is for the appropriate selection procurement utilization and maintenance of oxygen concentrators. This document also focuses on recommendations for the appropriate use and maintenance of oxygen concentrators in an effort to increase the availability management and quality of oxygen concentrators and ultimately to improve health outcomes in LRS. This document is intended to serve as a resource for the planning and provision of local and national oxygen concentrator systems for use by administrators clinicians and technicians who are interested in improving access to oxygen therapy and reducing global mortality associated with hypoxaemia.

FAECAL SLUDGE MANAGEMENT

SYSTEMS APPROACH FOR IMPLEMENTATION AND OPERATION

IWA Publishing It is estimated that literally billions of residents in urban and peri-urban areas of Africa, Asia, and Latin America are served by onsite sanitation systems (e.g. various types of latrines and septic tanks). Until recently, the management of faecal sludge from these onsite systems has been grossly neglected, partially as a result of them being considered temporary solutions until sewer-based systems could be implemented. However, the perception of onsite or decentralized sanitation technologies for urban areas is gradually changing, and is increasingly being considered as long-term, sustainable options in urban areas, especially in low- and middle-income countries that lack sewer infrastructures. This is the first book dedicated to faecal sludge management. It compiles the current state of knowledge of the rapidly evolving field of faecal sludge management, and presents an integrated approach that includes technology, management, and planning based on Sandecs 20 years of experience in the field. Faecal Sludge Management: Systems Approach for Implementation and Operation addresses the organization of the entire faecal sludge management service chain, from the collection and transport of sludge, and the current state of knowledge of treatment options, to the final end use or disposal of treated sludge. The book also presents important factors to consider when evaluating and upscaling new treatment technology options. The book is designed for undergraduate and graduate students, and engineers and practitioners in the field who have some basic knowledge of environmental and/or wastewater engineering.

THE CATHEDRAL & THE BAZAAR

MUSINGS ON LINUX AND OPEN SOURCE BY AN ACCIDENTAL REVOLUTIONARY

"O'Reilly Media, Inc." Open source provides the competitive advantage in the Internet Age. According to the August Forrester Report, 56 percent of IT managers interviewed at Global 2,500 companies are already using some type of open source software in their infrastructure and another 6 percent will install it in the next two years. This revolutionary model for collaborative software development is being embraced and studied by many of the biggest players in the high-tech industry, from Sun Microsystems to IBM to Intel. The Cathedral & the Bazaar is a must for anyone who cares about the future of the computer industry or the dynamics of the information economy. Already, billions of dollars have been made and lost based on the ideas in this book. Its conclusions will be studied, debated, and implemented for years to come. According to Bob Young, "This is Eric Raymond's great contribution to the success of the open source revolution, to the adoption of Linux-based operating systems, and to the success of open source users and the companies that supply them." The interest in open source software development has grown enormously in the past year. This revised and expanded paperback edition includes new material on open source developments in 1999 and 2000. Raymond's clear and effective writing style accurately describing the benefits of open source software has been key to its success. With major vendors creating acceptance for open source within companies, independent vendors will become the open source story in 2001.

ROUNABOUTS

AN INFORMATIONAL GUIDE

Transportation Research Board TRB's National Cooperative Highway Research Program (NCHRP) Report 672: Roundabouts: An Informational Guide - Second Edition explores the planning, design, construction, maintenance, and operation of roundabouts. The report also addresses issues that may be useful in helping to explain the trade-offs associated with roundabouts. This report updates the U.S. Federal Highway Administration's Roundabouts: An Informational Guide, based on experience gained in the United States since that guide

was published in 2000.

SAFETY OF LOADS ON VEHICLES

CODE OF PRACTICE

Stationery Office Books (TSO) In the UK every year, there are over 4,000 successful prosecutions of drivers and operators for unsafe loads, whilst many other incidents go unreported. The legal requirements seek to ensure all loads carried by commercial vehicles are adequately secured in order to protect those involved in loading, unloading and driving the vehicle, as well as other road users and pedestrians. This guide discusses the basic principles of load safety, as well as giving recommendations for specific loads including metal, timber and glass. It also covers any equipment on the vehicle such as loader cranes, landing legs and tailgates. It contains references to industry standards and codes of practice, and addresses the legal framework and possible offences.

INTRODUCTION TO PROCESS SAFETY FOR UNDERGRADUATES AND ENGINEERS

John Wiley & Sons Familiarizes the student or an engineer new to process safety with the concept of process safety management Serves as a comprehensive reference for Process Safety topics for student chemical engineers and newly graduate engineers Acts as a reference material for either a stand-alone process safety course or as supplemental materials for existing curricula Includes the evaluation of SACHE courses for application of process safety principles throughout the standard Ch.E. curricula in addition to, or as an alternative to, adding a new specific process safety course Gives examples of process safety in design

THE HAT INDUSTRY OF LUTON AND ITS BUILDINGS

Informed Conservation Although perhaps best known today as the home of Vauxhall Motors, Luton's industrial roots run much deeper. Long before it became associated with motor cars Luton was the centre of ladies' hat production in this country - a success founded upon the earlier regional industry of straw-plaiting. Many surrounding towns and villages fed into the industry and helped to make the region globally renowned. At its peak in the 1930s, the region was producing as many as 70 million hats in a single year; however, it entered a rapid decline following the Second World War from which it never recovered. This has left Luton, Dunstable and a number of other local towns with a challenging inheritance of neglected and decaying fragments of a once vital industry. This book is intended to be an introduction and guide to the area's historical depth and to its distinctive and varied character, seeking to explain the development of the region as the centre of the hatting industry in the south and exploring the lives of the people working there during the nineteenth and early twentieth centuries. The historic links between the surviving building stock and the hatting industry are assessed and the book highlights the significance of the surviving fabric and the potential of the historic environment within future conservation and regeneration plans.

OXYGEN THERAPY FOR CHILDREN

"Hypoxaemia is a major contributor to child deaths that occur worldwide each year; for a child with pneumonia hypoxaemia increases the risk of death by up to 5 times. Despite its importance in virtually all types of acute severe illness, hypoxaemia is often not well recognized or well managed more so in settings where resources are limited. Oxygen therapy remains an inaccessible luxury for a large proportion of severely ill children admitted to hospitals in developing countries. This is particularly true for patients in small district hospitals, where, even if some facility for delivering oxygen is available, supplies are often unreliable and the benefits of treatment may be diminished by poorly maintained, inappropriate equipment or poorly trained staff with inadequate guidelines. Increasing awareness of these problems is likely to have considerable clinical and public health benefits in the care of severely ill children. Health workers should be able to know the clinical signs that suggest the presence of hypoxaemia and have more reliable means of detection of hypoxaemia. This be achieved through more widespread use of pulse oximetry, which is a non-invasive measure of arterial oxygen saturation. At the same time oxygen therapy must be more widely available; in many remote settings, this can be achieved by use of oxygen concentrators, which can run on regular or alternative sources of power. Having effective systems for the detection and management of hypoxaemia are vital in reducing mortality from pneumonia and other severe acute illnesses. Oxygen therapy is essential to counter hypoxaemia and many a times is the difference between life and death. This manual focuses on the availability and clinical use of oxygen therapy in children in health facilities by providing the practical aspects for health workers, biomedical engineers, and administrators. It addresses the need for appropriate detection of hypoxaemia, use of pulse oximetry, clinical use of oxygen and delivery systems and monitoring of patients on oxygen therapy. In addition, the manual addresses practical use of pulse oximetry, and oxygen

concentrators and cylinders in an effort to improve oxygen systems worldwide."--Publisher's description

AIRCRAFT RADIO SYSTEMS

[Pitman Publishing](#)

ECOSYSTEM MANAGEMENT

ADAPTIVE, COMMUNITY-BASED CONSERVATION

[Island Press](#) **Today's natural resource managers must be able to navigate among the complicated interactions and conflicting interests of diverse stakeholders and decisionmakers. Technical and scientific knowledge, though necessary, are not sufficient. Science is merely one component in a multifaceted world of decision making. And while the demands of resource management have changed greatly, natural resource education and textbooks have not. Until now. Ecosystem Management represents a different kind of textbook for a different kind of course. It offers a new and exciting approach that engages students in active problem solving by using detailed landscape scenarios that reflect the complex issues and conflicting interests that face today's resource managers and scientists. Focusing on the application of the sciences of ecology and conservation biology to real-world concerns, it emphasizes the intricate ecological, socioeconomic, and institutional matrix in which natural resource management functions, and illustrates how to be more effective in that challenging arena. Each chapter is rich with exercises to help facilitate problem-based learning. The main text is supplemented by boxes and figures that provide examples, perspectives, definitions, summaries, and learning tools, along with a variety of essays written by practitioners with on-the-ground experience in applying the principles of ecosystem management. Accompanying the textbook is an instructor's manual that provides a detailed overview of the book and specific guidance on designing a course around it. Ecosystem Management grew out of a training course developed and presented by the authors for the U.S. Fish and Wildlife Service at its National Training Center in Shepherdstown, West Virginia. In 20 offerings to more than 600 natural resource professionals, the authors learned a great deal about what is needed to function successfully as a professional resource manager. The book offers important insights and a unique perspective derived from that invaluable experience.**

CROSS-PLATFORM GUI PROGRAMMING WITH WXWIDGETS

[Prentice Hall Professional](#) **"This book is the best way for beginning developers to learn wxWidgets programming in C++. It is a must-have for programmers thinking of using wxWidgets and those already using it." -Mitch Kapor, founder of Lotus Software and the Open Source Applications Foundation Build advanced cross-platform applications that support native look-and-feel on Windows, Linux, Unix, Mac OS X, and even Pocket PC Master wxWidgets from start to finish-even if you've never built GUI applications before Leverage advanced wxWidgets capabilities: networking, multithreading, streaming, and more Foreword by Mitch Kapor, founder, Lotus Development and Open Source Application Foundation wxWidgets is an easy-to-use, open source C++ API for writing GUI applications that run on Windows, Linux, Unix, Mac OS X, and even Pocket PC-supporting each platform's native look and feel with virtually no additional coding. Now, its creator and two leading developers teach you all you need to know to write robust cross-platform software with wxWidgets. This book covers everything from dialog boxes to drag-and-drop, from networking to multithreading. It includes all the tools and code you need to get great results, fast. From AMD to AOL, Lockheed Martin to Xerox, world-class developers are using wxWidgets to save money, increase efficiency, and reach new markets. With this book, you can, too. wxWidgets quickstart: event/input handling, window layouts, drawing, printing, dialogs, and more Working with window classes, from simple to advanced Memory management, debugging, error checking, internationalization, and other advanced topics Includes extensive code samples for Windows, Linux (GTK+), and Mac OS X**

COTTON GINNERS HANDBOOK

[DIANE Publishing](#) **Addresses the key cotton ginning issues concerned with facilities, machinery, cleaning, ginning, drying, packaging, and waste collection and disposal as well as ancillary issues concerned with pollution, management, economics, energy, insurance, safety, cotton classification, and textile machinery. Appendices: duties of gin personnel, portable moisture meters and pink bollworm control in gins. Glossary and index. Photos, charts, tables and graphs.**

ANALYSIS, SYNTHESIS AND DESIGN OF CHEMICAL PROCESSES

[Pearson Education](#) **The Leading Integrated Chemical Process Design Guide: Now with New Problems, New Projects, and More More than ever, effective design is the focal point of**

sound chemical engineering. *Analysis, Synthesis, and Design of Chemical Processes, Third Edition*, presents design as a creative process that integrates both the big picture and the small details—and knows which to stress when, and why. Realistic from start to finish, this book moves readers beyond classroom exercises into open-ended, real-world process problem solving. The authors introduce integrated techniques for every facet of the discipline, from finance to operations, new plant design to existing process optimization. This fully updated Third Edition presents entirely new problems at the end of every chapter. It also adds extensive coverage of batch process design, including realistic examples of equipment sizing for batch sequencing; batch scheduling for multi-product plants; improving production via intermediate storage and parallel equipment; and new optimization techniques specifically for batch processes. Coverage includes Conceptualizing and analyzing chemical processes: flow diagrams, tracing, process conditions, and more Chemical process economics: analyzing capital and manufacturing costs, and predicting or assessing profitability Synthesizing and optimizing chemical processing: experience-based principles, BFD/PFD, simulations, and more Analyzing process performance via I/O models, performance curves, and other tools Process troubleshooting and “debottlenecking” Chemical engineering design and society: ethics, professionalism, health, safety, and new “green engineering” techniques Participating successfully in chemical engineering design teams *Analysis, Synthesis, and Design of Chemical Processes, Third Edition*, draws on nearly 35 years of innovative chemical engineering instruction at West Virginia University. It includes suggested curricula for both single-semester and year-long design courses; case studies and design projects with practical applications; and appendixes with current equipment cost data and preliminary design information for eleven chemical processes—including seven brand new to this edition.

FAST FOOD NATION

THE DARK SIDE OF THE ALL-AMERICAN MEAL

Houghton Mifflin Harcourt **Explores the homogenization of American culture and the impact of the fast food industry on modern-day health, economy, politics, popular culture, entertainment, and food production.**

FIAT UNO SERVICE AND REPAIR MANUAL

Haynes Publishing

SAFETY AT STREET WORKS AND ROAD WORKS

A CODE OF PRACTICE

This publication sets out the statutory requirements for signing, lighting, and guarding at street works and road works. This is the core reference manual for utility companies, local authorities, street work contractors and others whose day-to-day business involves street works (works by statutory undertakers and other utility companies etc) and road works (works to maintain or repair road infrastructure). The code, which covers all of the UK and includes national variations, is now compulsory for highway/road authorities in England, Wales and Northern Ireland. It applies to all single carriageway roads and dual carriageways with a speed limit of 40 mph or less. The code is now divided into three parts: Basic Principles, Operations, and Equipment and Vehicles; site layout diagrams have been redrawn to make them easier to understand. There is: increased emphasis on using risk assessment and guidance on what to consider in such assessments; strengthened guidance on providing for pedestrians and cyclists and new guidance on traffic control measures related to road closures, one-way working and temporary road obstructions; enhanced advice on other traffic control measures including works near tramways and railways, and mobile/short duration works; and updated advice on high visibility clothing and the signing and conspicuity requirements for work vehicles. Effective from 1 October 2014 when it will supersede the 2001 edition (ISBN 9780115519581).

SPECIFICATION FOR SHEET METAL DUCTWORK

LOW, MEDIUM AND HIGH PRESSURE/VELOCITY AIR SYSTEMS

A PRACTICAL GUIDE TO SYSML

THE SYSTEMS MODELING LANGUAGE

[Morgan Kaufmann](#) **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

THE BLACKSMITH & WHEELWRIGHT

THE FOUNDER'S DILEMMAS

ANTICIPATING AND AVOIDING THE PITFALLS THAT CAN SINK A STARTUP

[Princeton University Press](#) **The Founder's Dilemmas** examines how early decisions by entrepreneurs can make or break a startup and its team. Drawing on a decade of research, including quantitative data on almost ten thousand founders as well as inside stories of founders like Evan Williams of Twitter and Tim Westergren of Pandora, Noam Wasserman reveals the common pitfalls founders face and how to avoid them.

NATIONAL ELECTRICAL CODE

[Cengage Learning](#) **Safe, efficient, code-compliant electrical installations** are made simple with the latest publication of this widely popular resource. Like its highly successful previous editions, the National Electrical Code 2011 spiral bound version combines solid, thorough, research-based content with the tools you need to build an in-depth understanding of the most important topics. New to the 2011 edition are articles including first-time Article 399 on Outdoor, Overhead Conductors with over 600 volts, first-time Article 694 on Small Wind Electric Systems, first-time Article 840 on Premises Powered Broadband Communications Systems, and more. This spiralbound version allows users to open the code to a certain page and easily keep the book open while referencing that page. The National Electrical Code is adopted in all 50 states, and is an essential reference for those in or entering careers in electrical design, installation, inspection, and safety.

ARCHITECTS' DATA

[Wiley-Blackwell](#) **This is an essential aid in the initial design and planning of a project.** The relevant building type is located by a comprehensive index and cross reference system, a condensed commentary covers user requirements, planning criteria, basic dimensions and other considerations of function, siting aspect etc. A system of references based on an extensive bibliography supports the text. In every section plans, sections, site layouts, design details and graphs illustrated key aspects of a building type's design. Most illustrations are dimensioned or scaled - the metric system of measurement is used throughout, and the equivalent in feet/inches can easily be read either off a graphic scale on the page or from the built-in conversion table. The illustrations are international in origin and include both well know and less famous designers. Architects Data is primarily a handbook of building types rather than of construction techniques and details. However its treatment of components (such as doors and windows) and of spaces for building services is extremely thorough, since consideration of this data is an essential element of the planning process. The opening pages of basic data on man and his buildings cover critical subjects such as scale, drawing practice, noise, light and space for the same reason. Particular attention has also been paid to the implications of energy conservation, means of escape from fire and the needs of the elderly and the disabled.

SELECTIVE DETECTORS

ENVIRONMENTAL, INDUSTRIAL, AND BIOMEDICAL APPLICATIONS

Wiley-Interscience **A timely and authoritative review of the current state of selective detector technology This book was written for professionals who need to keep abreast of the latest developments and emerging trends in selective detectors and their applications. It comprises contributions from many of the leading innovators and pioneers in the field, including James Lovelock, inventor of the electron capture detector, whose own contribution is certain to be a rich source of ideas and inspiration for all who read it. Offering a balanced presentation of theory and practice, Selective Detectors: Reviews the theory and underlying principles of a broad range of devices Discusses, in detail, capabilities and current applications, with an emphasis on interdisciplinary applications, including environmental, petrochemical, biomedical, and quality control Explores, in depth, the latest advances and emerging technologies Arms readers with a wealth of practical "how-to" information on selecting, using, modifying, and building selective detectors for a wide range of applications Future historians studying the late twentieth century will almost certainly come to view the advent of selective detectors as among the truly formative technological developments of the period. Anyone who doubts this thesis need only consider the impact of selective detection on environmental quality, the sciences, technology, medicine, business and industry, public policy, quality control, and many other fields. Yet, despite the obvious importance of selective detectors, there continues to be a scarcity of books dedicated to helping professionals keep abreast of the latest developments and emerging trends in this influential technology. This timely and authoritative review of the current state of selective detector technology fills that gap. This book focuses on the newest selective detectors for chromatographic analysis. Conceived and shepherded into existence by a major figure in analytical chemistry and environmental analysis, it includes contributions from many of the leading innovators and pioneers in the field. Most prominent among these is Dr. James Lovelock, inventor of the electron capture detector, whose chapter on the history and development of selective detectors will be a rich source of ideas and inspiration for all who read it. Offering a balanced presentation of theory and practice, Selective Detectors reviews the theory and underlying principles of selective detectors; discusses, in detail, their current capabilities and applications; explores the latest advances and emerging technologies; and arms readers with a wealth of practical "how-to" information on selecting, using, modifying, and building selective detectors for a wide range of applications. Selective Detectors is an invaluable resource for analytical chemists and technicians working in a variety of disciplines, including environmental science, petrochemical industries, the food and beverage industries, biotechnology, medicine, and more.**

THE CMS HOSPITAL CONDITIONS OF PARTICIPATION AND INTERPRETIVE GUIDELINES

In addition to reprinting the PDF of the CMS CoPs and Interpretive Guidelines, we include key Survey and Certification memos that CMS has issued to announced changes to the emergency preparedness final rule, fire and smoke door annual testing requirements, survey team composition and investigation of complaints, infection control screenings, and legionella risk reduction.

LDS PREPAREDNESS MANUAL

MANUAL FOR STREETS

Thomas Telford Services Limited **Aims to facilitate the creation of streets that promote greater social interaction and enjoyment while still performing successfully as conduits for movement. This guide helps you in the creation of streets that: help to build and strengthen the communities they serve; meet the needs of all users; and form part of a well-connected network.**

REMOTELY OPERATED SHUTOFF VALVES (ROSOVS) FOR EMERGENCY ISOLATION OF HAZARDOUS SUBSTANCES

GUIDANCE ON GOOD PRACTICE

Helps you to make a risk assessment on whether you need a ROSOV and details the steps for implementation. This title is suitable for operators and managers of installations which handle, store or process hazardous substances, as well as plant supervisors, design, process and maintenance engineers and safety professionals.