

Api 2000

Maximize the impact of your assets and business services by providing APIs for developers and other users. The journey described in this book starts with identifying business assets. As part of the API team, you then need to identify and define the requirements of traffic management, security, mediation, and orchestration. You also must define metrics for the analytics to measure the success of the overall API program. API documentation and the ease of developer onboarding also determine the success of the APIs. Finally, monetization of these APIs leads to revenue generation for the enterprise. Author De — an expert in building and managing API solutions — provides enterprise architects, designers, and technologists with insight into the world of APIs and the various technical aspects of building and managing an effective API management solution. API Management: Developing and Managing APIs for your Organization: Introduces the basics of APIs and highlights their value Provides an overview of technologies for building an API management solution and defines the requirements, including how to build a RESTful API Offers design principles for building developer-friendly APIs Explains how to secure your APIs Shows how to use API analytics to measure the success of your APIs Demonstrates how to monetize APIs Finally, API Management touches on various technical nuances of creating, distributing, and managing an API. This book will not only help you learn how to design, build, deploy, and manage an API for an enterprise scale, but also generate revenue for your organization. What You'll Learn Discover the API life cycle Design and develop APIs Implement API security Test your APIs Deploy and monitor your APIs Who This Book Is For Enterprise architects, technology enthusiasts, security architects, and

operations specialists.

Safety in the process industries is critical for those who work with chemicals and hazardous substances or processes. The field of loss prevention is, and continues to be, of supreme importance to countless companies, municipalities and governments around the world, and Lees' is a detailed reference to defending against hazards. Recognized as the standard work for chemical and process engineering safety professionals, it provides 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 three volume reference instead. The process safety encyclopedia, trusted worldwide for over 30 years Now available in print and online, to aid searchability and portability Over 3,600 print pages cover the full scope of process safety and loss prevention, compiling theory, practice, standards, legislation, case studies and lessons learned in one resource as opposed to multiple sources

Fixed roof storage tanks are known to have a weak resistance to slight vacuum or slight pressure. Typically, the minimum design vacuum is -0.036 psig and the maximum design pressure is 15 psig according to API 620 (12th Edition, 2013). Because these storage tanks have very thin shelled walls, a slight vacuum can cause tank distortion and failure. Upon a sudden change in weather conditions such as a rainstorm occurring suddenly, atmospheric storage tanks experience thermal inbreathing of ambient air into the tank. If air does not enter rapidly, a pressure drop occurs inside the tank that can lead to tank wall failure by implosion

due to negative pressure. Therefore, relief devices must be sized properly based on the maximum inbreathing rate to provide safe venting of the tank. This study aims at calculating the maximum thermal inbreathing rate by performing dynamic simulations for different tanks using ioMosaic's SuperChems Expert™ software. The first objective of this research was comparing the detailed SuperChems Expert™ single-phase and two-phase wall dynamics model to existing large scale test data and models. The results were successfully reproduced using this software with error margins between $\pm 5\%$. Previous to this work, the software had not been evaluated for this important modeling. The second objective was to compare results from the SuperChems-based model against API 2000 (7th Edition, 2014), which is the current standard used for venting atmospheric and low-pressure storage tanks. This work found under a number of scenarios that API 2000 relief equations are considered conservative for non-condensable gas services where the relief device may be oversized by up to 60%. However, API 2000 modes fail to predict appropriate relief sizing for tanks storing condensable vapors, such as methanol, and wide-boiling-point mixtures, such as gasoline-ethanol. The relief device capacity can be underestimated by as much as 270% using API 2000. This work recommends adjusting the free-convection heat transfer coefficients according to the vapor type to ensure adequate relief sizing for safe venting. The third and final objective of this research was to assess the impact of the solar radiation. Solar radiation varies with the geographical location of the tank and impacts the thermal inbreathing and out-breathing. The two locations chosen for this study were Montreal, Canada and Jubail City, Saudi Arabia. Examined were three types of colors for external wall covering with different values of emissivity. Colors examined were: white, aluminum bronze, and black. Rainstorms were

simulated at the time of maximum solar flux (i.e. highest tank wall temperature) to create the worst-case scenario and thus the maximum inbreathing rate. Preliminary results for dry air showed that a 600 m³ tank in Saudi Arabia experiences 10% higher inbreathing and 8% higher out-breathing as compared to a tank located in Canada. API 2000 relief calculations were adequate in this case. However, it should be noted that the comparison is for tanks filled with non-condensable dry air only. Future work in this objective is recommended for tanks containing condensable vapors and verification of the maximum inbreathing rates determined at the two locations.

A Comprehensive Database of Tests on Axially Loaded Driven Piles in Sands reviews the critical need to develop better load-test databases for piles driven in sands. The key quality parameters, population of current entries and reporting formats are described before offering preliminary results obtained from comparisons between axial capacities calculated by various predictive approaches and site measurements. This book also shows that the "simplified" and "offshore" ICP and UWA variants proposed by some practitioners are over-conservative and that their use could be discontinued. The new pile capacity and stiffness database offers a broad scope for evaluating potential prediction biases relating to a wide range of soil and pile parameters. Submission of further high quality tests for inclusion in regularly updated versions is encouraged. Presents a comprehensive and updated database for piles driven in predominantly silica sands Features reviews of the design procedures for driven piles in sand Assesses the performance of various mainstreams design procedures applied for piles driven in sand Provides comprehensive information of case histories of pile load tests This new edition of the Standard Handbook of Petroleum and Natural Gas Engineering

provides you with the best, state-of-the-art coverage for every aspect of petroleum and natural gas engineering. With thousands of illustrations and 1,600 information-packed pages, this text is a handy and valuable reference. Written by over a dozen leading industry experts and academics, the Standard Handbook of Petroleum and Natural Gas Engineering provides the best, most comprehensive source of petroleum engineering information available. Now in an easy-to-use single volume format, this classic is one of the true "must haves" in any petroleum or natural gas engineer's library. * A classic for the oil and gas industry for over 65 years! * A comprehensive source for the newest developments, advances, and procedures in the petrochemical industry, covering everything from drilling and production to the economics of the oil patch. * Everything you need - all the facts, data, equipment, performance, and principles of petroleum engineering, information not found anywhere else. * A desktop reference for all kinds of calculations, tables, and equations that engineers need on the rig or in the office. * A time and money saver on procedural and equipment alternatives, application techniques, and new approaches to problems.

* Each chapter is written by one or more invited world-renowned experts * Information provided in handy reference tables and design charts * Numerous examples demonstrate how the theory outlined in the book is applied in the design of structures Tremendous strides have been made in the last decades in the advancement of offshore exploration and production of minerals. This book fills the need for a practical reference work for the state-of-the-art in offshore engineering. All the basic background material and its application in offshore engineering is covered. Particular emphasis is placed in the application of the theory to practical problems. It includes the practical aspects of the offshore structures with handy

design guides, simple description of the various components of the offshore engineering and their functions. The primary purpose of the book is to provide the important practical aspects of offshore engineering without going into the nitty-gritty of the actual detailed design. · Provides all the important practical aspects of ocean engineering without going into the 'nitty-gritty' of actual design details· · Simple to use - with handy design guides, references tables and charts· · Numerous examples demonstrate how theory is applied in the design of structures

A comprehensive and detailed reference guide on the integrity and safety of oil and gas pipelines, both onshore and offshore Covers a wide variety of topics, including design, pipe manufacture, pipeline welding, human factors, residual stresses, mechanical damage, fracture and corrosion, protection, inspection and monitoring, pipeline cleaning, direct assessment, repair, risk management, and abandonment Links modern and vintage practices to help integrity engineers better understand their system and apply up-to-date technology to older infrastructure Includes case histories with examples of solutions to complex problems related to pipeline integrity Includes chapters on stress-based and strain-based design, the latter being a novel type of design that has only recently been investigated by designer firms and regulators Provides information to help those who are responsible to establish procedures for ensuring pipeline integrity and safety

High pressure liquid chromatography—frequently called high performance liquid chromatography (HPLC or, LC) is the premier analytical technique in pharmaceutical analysis and is predominantly used in the pharmaceutical industry. Written by selected experts in their respective fields, the Handbook of

Pharmaceutical Analysis by HPLC Volume 6, provides a complete yet concise reference guide for utilizing the versatility of HPLC in drug development and quality control. Highlighting novel approaches in HPLC and the latest developments in hyphenated techniques, the book captures the essence of major pharmaceutical applications (assays, stability testing, impurity testing, dissolution testing, cleaning validation, high-throughput screening). A complete reference guide to HPLC Describes best practices in HPLC and offers 'tricks of the trade' in HPLC operation and method development Reviews key HPLC pharmaceutical applications and highlights currents trends in HPLC ancillary techniques, sample preparations, and data handling

Offshore Safety Management, Second Edition provides an experienced engineer's perspective on the new Safety and Environmental System (SEMS) regulations for offshore oil and gas drilling, how they compare to prior regulations, and how to implement the new standards seamlessly and efficiently. The second edition is greatly expanded, with increased coverage of technical areas such as engineering standards and drilling, and procedural areas such as safety cases and formal safety assessments. The new material both complements the SEMS coverage and increases the book's relevance to a global audience. Following the explosion, fire, and sinking of the Deepwater Horizon

floating drilling rig in April 2010, the Bureau of Ocean Energy Management, Regulations, and Enforcement (BOEMRE) issued many new regulations. One of them was the Safety and Environmental System rule, which is based on the American Petroleum Institute's SEMP recommended practice, finalized in April 2013. Author Ian Sutton explains the SEMS rule, and describes what must be done to achieve compliance. Each of the twelve elements of the SEMS rule (such as Management of Change and Safe Work Practices) is described in the book, and guidance is provided on how to meet BOEMRE requirements. Detailed explanation of how to implement the new SEMS standard for offshore operations Ties the new regulations in with existing safety management approaches, helping managers leverage existing processes and paperwork With CEOs now signing off on compliance paperwork, this book provides expert insights so you can get SEMS compliance right the first time

Frontiers in Offshore Geotechnics III comprises the contributions presented at the Third International Symposium on Frontiers in Offshore Geotechnics (ISFOG, Oslo, Norway, 10-12 June 2015), organised by the Norwegian Geotechnical Institute (NGI). The papers address current and emerging geotechnical engineering challenges facing those working in off

There are many different types of explosions, each with its own complex

mechanism. Understanding explosions is important in preventing them. This reference provides valuable information on explosions for everyone involved in the operation, design, maintenance, and management of chemical processes, helping enhance understanding of the nature of explosions and the practical methods required to prevent them from occurring. The text includes:

- Fundamental basis for explosions
- Explosive and flammable behavior and characteristics of materials
- Different types of explosions
- Fire and explosion hazard recognition
- Practical methods for preventing explosions or minimizing the potential consequences
- Additional references

Understanding Explosions provides a practical understanding of explosion fundamentals, including the different types of explosions, the explosive and flammable behavior of materials, and the hazards related to fires and explosions. It also discusses practical methods to prevent and minimize the probability and consequence of an explosion during routine use of flammable, combustible and/or reactive materials.

The European Community Reference Laboratory for residues of beta-agonists, anticoccidials including nitroimidazoles, anthelmintics and non-steroidal anti-inflammatory drugs (NSAIDs) at the BVL (Bundesamt für Verbraucherschutz und Lebensmittelsicherheit) is part of Group 5 "Analyses". The CRL is represented by unit 502 which is also the NRL for the substance groups the CRL is

responsible for. The analytical activities of the CRL Berlin are pursued by two specialised sub-units, one being responsible for GC and GC-MS, one for HPLC and LC-MS. They are supplemented by a third sub-unit in charge o.

Final Report, Project IIEngineering Feasibility Study of Underground Storage in Existing Leached Caverns in Salt FormationsRelief Systems HandbookIChemE

This textbook provides a comprehensive introduction to chemical process engineering, linking the fundamental theory and concepts to the industrial day-to-day practice. It bridges the gap between chemical sciences and the practical chemical industry. It enables the reader to integrate fundamental knowledge of the basic disciplines, to understand the most important chemical processes, and to apply this knowledge to the practice in the industry.

Leadership in education is affected by and transformed by the major reform initiatives being implemented in America's schools. This book explores three clusters and ten actual models used in comprehensive school reform.

Unsurpassed in its coverage, usability, and authority since its first publication in 1969, the three-volume Instrument Engineers' Handbook continues to be the premier reference for instrument engineers around the world. It helps users select and implement hundreds of measurement and control instruments and analytical devices and design the most cost-effective process control systems that optimize production

and maximize safety. Now entering its fourth edition, Volume 1: Process Measurement and Analysis is fully updated with increased emphasis on installation and maintenance consideration. Its coverage is now fully globalized with product descriptions from manufacturers around the world. Béla G. Lipták speaks on Post-Oil Energy Technology on the AT&T Tech Channel.

The Engineer's Guide to Plant Layout and Piping Design for the Oil and Gas Industries gives pipeline engineers and plant managers a critical real-world reference to design, manage, and implement safe and effective plants and piping systems for today's operations. This book fills a training void with complete and practical understanding of the requirements and procedures for producing a safe, economical, operable and maintainable process facility. Easy to understand for the novice, this guide includes critical standards, newer designs, practical checklists and rules of thumb. Due to a lack of structured training in academic and technical institutions, engineers and pipe designers today may understand various computer software programs but lack the fundamental understanding and implementation of how to lay out process plants and run piping correctly in the oil and gas industry. Starting with basic terms, codes and basis for selection, the book focuses on each piece of equipment, such as pumps, towers, underground piping, pipe sizes and supports, then goes on to cover piping stress analysis and the daily needed calculations to use on the job. Delivers a practical guide to pipe supports, structures and hangers available in one go-to source Includes

information on stress analysis basics, quick checks, pipe sizing and pressure drop
Ensures compliance with the latest piping and plant layout codes and complies with worldwide risk management legislation and HSE Focuses on each piece of equipment, such as pumps, towers, underground piping, pipe sizes and supports Covers piping stress analysis and the daily needed calculations to use on the job

Site characterization is a fundamental step towards the proper design, construction and long term performance of all types of geotechnical projects, ranging from foundation, excavation, earth dams, embankments, seismic hazards, environmental issues, tunnels, near and offshore structures. The Fourth International Conference on Site Characterization

Offshore Structures: Design, Construction and Maintenance, Second Edition covers all types of offshore structures and platforms employed worldwide. As the ultimate reference for selecting, operating and maintaining offshore structures, this book provides a roadmap for designing structures which will stand up even in the harshest environments. Subsea pipeline design and installation is also covered in this edition, as is the selection of the proper type of offshore structure, the design procedure for the fixed offshore structure, nonlinear analysis (Push over) as a new technique to design and assess the existing structure, and more. With this book in hand, engineers will have the most up-to-date methods for performing a structural lifecycle analysis, implementing maintenance plans for topsides and jackets and using non-destructive testing. Provides

a one-stop guide to offshore structure design and analysis Presents easy-to-understand methods for structural lifecycle analysis Contains expert advice for designing offshore platforms for all types of environments

One of the major difficulties in predicting the capacity of pipe piles in sand has resulted from a lack of understanding of the physical processes that control the behavior of piles during installation and loading. This monograph presents a detailed blue print for developing experimental facilities necessary to identify these processes. These facilities include a unique instrumented double-walled pipe-pile that is used to delineate the frictional stresses acting against the external and internal surfaces of the pile. The pile is fitted with miniature pore-pressure transducers to monitor the generation of pore water pressure during installation and loading. A fast automatic laboratory pile hammer capable of representing the phenomena that occur during pile driving was also developed and used.

The Second International Conference on Press-in Engineering (ICPE) 2021 was organized by the International Press-in Association (IPA). The conference is held every three years and the main theme this time is "Evolution and Social Contribution of Press-in Engineering for Infrastructure Development, and Disaster Prevention and Mitigation". These proceedings contain 2 keynote lectures, 3 state-of-the-art lectures and about 60 papers from more than 10 countries. This publication provides good practice guidance on the application of the press-in piling method, to satisfy the requirements of geo-

structures which are embedded utilizing prefabricated piles. It covers actual examples of the press-in piling method applied to various geo-structures, such as temporary and permanent retaining walls, cofferdams, cut-off walls, foundation piles etc. The content addresses the technical and construction issues relating to the selection of the appropriate type of press-in piling method, in accordance with required structural design criteria and soil and working conditions. The aim of this publication is to concisely describe practical uses of the press-in piling method for project owners, designers, contractors, academic researchers and other people in the construction industry. Analyses the Indonesian parliament's contribution towards the process of democratization. Contributes not only to research on the Indonesian democratization process, but also to the comparative research on parliaments in transition processes in general.

Standard Handbook of Petroleum and Natural Gas Engineering, Third Edition, provides you with the best, state-of-the-art coverage for every aspect of petroleum and natural gas engineering. With thousands of illustrations and 1,600 information-packed pages, this handbook is a handy and valuable reference. Written by dozens of leading industry experts and academics, the book provides the best, most comprehensive source of petroleum engineering information available. Now in an easy-to-use single volume format, this classic is one of the true "must haves" in any petroleum or natural gas engineer's library. A classic for over 65 years, this book is the most comprehensive source for the newest developments, advances, and procedures in the oil and gas industry. New to this edition are materials covering everything from drilling and production to the economics of the oil patch. Updated

sections include: underbalanced drilling; integrated reservoir management; and environmental health and safety. The sections on natural gas have been updated with new sections on natural gas liquefaction processing, natural gas distribution, and transport. Additionally there are updated and new sections on offshore equipment and operations, subsea connection systems, production control systems, and subsea control systems. Standard Handbook of Petroleum and Natural Gas Engineering, Third Edition, is a one-stop training tool for any new petroleum engineer or veteran looking for a daily practical reference. Presents new and updated sections in drilling and production Covers all calculations, tables, and equations for every day petroleum engineers Features new sections on today's unconventional resources and reservoirs

"Written by engineers for engineers (with over 150 International Editorial Advisory Board members), this highly lauded resource provides up-to-the-minute information on the chemical processes, methods, practices, products, and standards in the chemical, and related, industries. "

This book examines the fire-resistant design of fixed offshore platforms. It describes the required loading, load combinations, strength and stability checks for structural elements. It also explains the design of tubular joints, fatigue analysis, dynamic analysis, and impact analysis, Fire resistance, fire, explosion and blast effect analysis, fire protection materials, and safety.

The Instrument and Automation Engineers' Handbook (IAEH) is the #1 process automation handbook in the world. Volume one of the Fifth Edition, Measurement and Safety, covers safety sensors and the detectors of physical properties. Measurement and Safety is an

invaluable resource that: Describes the detectors used in the measurement of process variables Offers application- and method-specific guidance for choosing the best measurement device Provides tables of detector capabilities and other practical information at a glance Contains detailed descriptions of domestic and overseas products, their features, capabilities, and suppliers, including suppliers' web addresses Complete with 163 alphabetized chapters and a thorough index for quick access to specific information, Measurement and Safety is a must-have reference for instrument and automation engineers working in the chemical, oil/gas, pharmaceutical, pollution, energy, plastics, paper, wastewater, food, etc. industries. About the eBook The most important new feature of the IAEH, Fifth Edition is its availability as an eBook. The eBook provides the same content as the print edition, with the addition of thousands of web addresses so that readers can reach suppliers or reference books and articles on the hundreds of topics covered in the handbook. This feature includes a complete bidders' list that allows readers to issue their specifications for competitive bids from any or all potential product suppliers.

Annotation This practical guide fills a gap in the literature on pressure relief design, operation and maintenance, covering the applicability to and reliability of different pressure relief devices in individual situations.

Low Cost Wastewater Bioremediation Technology: Innovative Treatment of Sulphate and Metal Rich Wastewater provides users with an authoritative guide on the technologies, processes and considerations needed for the treatment of Sulphate and Metal rich wastewaters. In this book, the authors not only explain the associated technologies, but also provide suitable alternatives to commercial treatment in terms of performance and cost

effectiveness. As enormous quantities of sulphates and metal-rich contaminants are released into the environment each year, the technologies noted in the book provide the most eco-friendly, low cost and efficient alternatives available. Covers the efficiency of treatment in terms of scale, efficiency and effectiveness of different bioremediation technologies for wastewater remediation Discusses the economics of treatment and the development of suitable alternatives in terms of performance and cost effectiveness

This book addresses current and emerging challenges facing those working in offshore construction, design and research. Keynote papers from leading industry practitioners and academics provide a comprehensive overview of central topics covering deepwater anchoring, pipelines, foundation solutions for offshore wind turbines, site investigation, geohazards and emerging Australian frontiers. A further 125 peer reviewed papers introduce and analyse the critical challenges of offshore geotechnical engineering in the areas of the keynote subjects as well as piling, caissons and shallow foundation systems. The papers collected in these proceedings report a variety of numerical and theoretical investigations, experimental programs and field experience, with established design methods discussed alongside state-of-the-art practices.

The introductory chapter reviews the test specifications and the author's recommendation on the best strategy for passing the exam. The first chapter reviews English and SI units and conversions. A complete conversion table is given. Chapter 3 covers heat transfer, conduction, transfer coefficients and heat transfer equipment. Chapter 4 covers evaporation principles, calculations and example problems. Distillation is thoroughly covered in chapter 5. The subsequent chapters review fundamentals of fluid mechanics, hydraulics and typical pump and

piping problems: absorption, leaching, liquid-liquid extraction, and the rest of the exam topics. Each of the topics is reviewed followed by examples of examination problems. This book is the ideal study guide bringing all elements of professional problem solving together in one Big Book. The first truly practical, no-nonsense review for the difficult PE exam. Full Step-by-Step solutions included.

Current industry, government and public emphasis on containment of hazardous materials makes it essential for each plant to reduce and control accidental releases to the atmosphere. Guidelines for Pressure Relief and Effluent Handling Systems meets the need for information on selecting and sizing pressure relief devices and effluent handling systems that will maintain process integrity and avoid discharge of potentially harmful materials to the atmosphere. With a CD-ROM enclosed containing programs for calculating flow through relief devices, effluent handling systems, and associated piping, the book offers an important collection of state-of-the-art technology for safely relieving process equipment of such conditions as overpressure, overtemperature and/or runaway reactions. It provides information for two-phase and compressible gas flow to select and size pressure relief devices, piping, and effluent handling equipment, such as gravity separators, cyclones, spargers, and quench pools. The book has an important collection of state-of-the-art technology for safely relieving process equipment of conditions such as overpressure, overtemperature and/or run-away reactions. It provides information for two-phase and compressible gas flow to select and size pressure relief devices, piping, and effluent handling equipment such as gravity separators cyclones, spargers and quench pools. Special Details: CD files for this title can now be found by entering the ISBN 9780816904761 on booksupport.wiley.com.

Design practice in offshore geotechnical engineering has grown out of onshore practice, but the two application areas have tended to diverge over the last thirty years, driven partly by the scale of the foundation and anchoring elements used offshore, and partly by fundamental differences in construction and installation techniques. As a consequence offshore geotechnical engineering has grown as a speciality. The structure of *Offshore Geotechnical Engineering* follows a pattern that mimics the flow of a typical offshore project. In the early chapters it provides a brief overview of the marine environment, offshore site investigation techniques and interpretation of soil behaviour. It proceeds to cover geotechnical design of piled foundations, shallow foundations and anchoring systems. Three topics are then covered which require a more multi-disciplinary approach: the design of mobile drilling rigs, pipelines and geohazards. This book serves as a framework for undergraduate and postgraduate courses, and will appeal to professional engineers specialising in the offshore industry. The aim of this major reference work is to provide a first point of entry to the literature for the researchers in any field relating to structural integrity in the form of a definitive research/reference tool which links the various sub-disciplines that comprise the whole of structural integrity. Special emphasis will be given to the interaction between mechanics and materials and structural integrity applications. Because of the interdisciplinary and applied nature of the work, it will be of interest to mechanical engineers and materials scientists from both academic and industrial backgrounds including bioengineering, interface engineering and nanotechnology. The scope of this work encompasses, but is not restricted to: fracture mechanics, fatigue, creep, materials, dynamics, environmental degradation, numerical methods, failure mechanisms and damage mechanics, interfacial fracture and nano-

technology, structural analysis, surface behaviour and heart valves. The structures under consideration include: pressure vessels and piping, off-shore structures, gas installations and pipelines, chemical plants, aircraft, railways, bridges, plates and shells, electronic circuits, interfaces, nanotechnology, artificial organs, biomaterial prostheses, cast structures, mining... and more. Case studies will form an integral part of the work.

Domino Effects in the Process Industries discusses state-of-the-art theories, conceptual models, insights and practical issues surrounding large-scale knock-on accidents—so-called domino effects—in the chemical and process industries. The book treats such extremely low-frequency phenomena from a technological perspective, studying possible causes and introducing several approaches to assess and control the risks of these scenarios. The authors also examine these events from a managerial viewpoint, discussing single and multi-plant management insights and requirements to take pro-active measures to prevent such events. Academics, regulators, and industrialists who study and analyze domino effects in order to prevent such events will find the book unique and highly valuable. Outlines available methods in analyzing these events, aiding understanding of the accidents and their causes Covers current modelling, control and management tactics of domino effects, -facilitating prevention Identifies areas where new research is needed

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