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Fire protection engineering professionals use science and technology to research the causes of fires and determine fire protection methods. Among their many job duties, fire and safety engineers recommend or design fire detection materials or equipment that will help protect life and property against fire,

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A clear and concise reference guide on integrating fire protection design, *Fire Protection Engineering in Building Design* encompasses not only the basic information on the functions, design, and applications of fire protection systems; but also reveals how this information can and should be integrated with every other major engineering discipline. Protecting people, buildings and the environment from the impact of fire requires a comprehensive, systematic approach that includes the analysis of fire hazards as well as the design, installation and maintenance of fire detection, suppression and communications systems. Jane Lataille takes the reader beyond these basic issues and includes information

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on mitigating potential fire damage through proper design and construction of buildings, industrial processes and utility systems.

Through specific examples, the reader sees how fire protection engineering can be integrated with mechanical, electrical, structural, and chemical engineering. The book also includes a section on writing fire protection specifications as well as a comprehensive reference list. *

Assure effective fire protection design through engineering * Avoid costly fire protection redesign * Effectively integrate fire protection features into project specifications

Table of contents

A collection of papers that address such issues as model limits and

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reliability, emerging expert systems and integrated gas and solid phase combustion simulation models.

Written by an engineer for engineers, this book is both training manual and on-going reference, bringing together all the different facets of the complex processes that must be in place to minimize the risk to people, plant and the environment from fires, explosions, vapour releases and oil spills. Fully compliant with international regulatory requirements, relatively compact but comprehensive in its coverage, engineers, safety professionals and concerned company management will buy this book to capitalize on the author ' s life-long expertise. This is the only book focusing specifically on oil and gas and related chemical

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facilities. This new edition includes updates on management practices, lessons learned from recent incidents, and new material on chemical processes, hazards and risk reviews (e.g. CHAZOP). Latest technology on fireproofing, fire and gas detection systems and applications is also covered. An introductory chapter on the philosophy of protection principles along with fundamental background material on the properties of the chemicals concerned and their behaviours under industrial conditions, combined with a detailed section on modern risk analysis techniques makes this book essential reading for students and professionals following Industrial Safety, Chemical Process Safety and Fire Protection Engineering courses. A practical,

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results-oriented manual for practicing engineers, bringing protection principles and chemistry together with modern risk analysis techniques Specific focus on oil and gas and related chemical facilities, making it comprehensive and compact Includes the latest best practice guidance, as well as lessons learned from recent incidents

Handbook of Fire and Explosion Protection Engineering Principles: for Oil, Gas, Chemical and Related Facilities is a general engineering handbook that provides an overview for understanding problems of fire and explosion at oil, gas, and chemical facilities. This handbook offers information about current safety management practices and technical engineering improvements.

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It also provides practical knowledge about the effects of hydrocarbon fires and explosions and their prevention, mitigation principals, and methodologies. This handbook offers an overview of oil and gas facilities, and it presents insights into the philosophy of protection principles. Properties of hydrocarbons, as well as the characteristics of its releases, fires and explosions, are also provided in this handbook. The book includes chapters about fire- and explosion-resistant systems, fire- and gas-detection systems, alarm systems, and methods of fire suppression. The handbook ends with a discussion about human factors and ergonomic considerations, including human attitude, field devices, noise control, panic, and security. People involved with fire and explosion prevention,

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such as engineers and designers, will find this book invaluable. A unique practical guide to preventing fires and explosions at oil and gas facilities, based on the author ' s extensive experience in the industry An essential reference tool for engineers, designers and others facing fire protection issues Based on the latest NFPA standards and interpretations

Understanding fire dynamics and combustion is essential in fire safety engineering and in fire science curricula. Engineers and students involved in fire protection, safety and investigation need to know and predict how fire behaves to be able to implement adequate safety measures and hazard analyses. Fire phenomena encompass everything about the

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scientific principles behind fire behavior. Combining the principles of chemistry, physics, heat and mass transfer, and fluid dynamics necessary to understand the fundamentals of fire phenomena, this book integrates the subject into a clear discipline: Covers thermochemistry including mixtures and chemical reactions; Introduces combustion to the fire protection student; Discusses premixed flames and spontaneous ignition; Presents conservation laws for control volumes, including the effects of fire; Describes the theoretical bases for empirical aspects of the subject of fire; Analyses ignition of liquids and the importance of evaporation including heat and mass transfer; Features the stages of fire in compartments, and the role of scale

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modeling in fire. Fundamentals of Fire Phenomena is an invaluable reference tool for practising engineers in any aspect of safety or forensic analysis. Fire safety officers, safety practitioners and safety consultants will also find it an excellent resource. In addition, this is a must-have book for senior engineering students and postgraduates studying fire protection and fire aspects of combustion.

Designing structures to withstand the effects of fire is challenging, and requires a series of complex design decisions. This third edition of Fire Safety Engineering Design of Structures provides practising fire

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safety engineers with the tools to design structures to withstand fires. This text details standard industry design decisions, and offers expert design advice, with relevant historical data. It includes extensive data on materials ' behaviour and modeling -- concrete, steel, composite steel-concrete, timber, masonry, and aluminium. While weighted to the fire sections of the Eurocodes, this book also includes historical data to allow older structures to be assessed. It extensively covers fire damage investigation, and includes as far back as possible, the background to code methods to enable the engineer to better understand why certain procedures are adopted. What ' s new in the Third Edition? An overview in the first chapter explains the types of design decisions required for

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optimum fire performance of a structure, and demonstrates the effect of temperature rise on structural performance of structural elements. It extends the sections on less common engineering materials. The section on computer modelling now includes material on coupled heat and mass transfer, enabling a better understanding of the phenomenon of spalling in concrete. It includes a series of worked examples, and provides an extensive reference section. Readers require a working knowledge of structural mechanics and methods of structural design at ambient conditions, and are helped by some understanding of thermodynamics of heat transfer. This book serves as a resource for engineers working in the field of fire safety, consultants who regularly

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carry out full fire safety design for structure, and researchers seeking background information. Dr John Purkiss is a chartered civil and structural engineer/consultant and former lecturer in structural engineering at Aston University, UK. Dr Long-Yuan Li is Professor of Structural Engineering at Plymouth University, UK, and a Fellow of the Institution of Structural Engineers.

Features papers directed to fire protection in various environments other than building structures including fuel transporting vehicles, spacecraft, a sports arena, an offshore oil rig and propane fueling bus facilities.

Fire Safety is the science of fire and the means of protection against it.

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Being multidisciplinary in nature, the subject is closely related to chemical engineering, building services, electrical, electronics, structural and civil engineering and industrial engineering. There is a dearth of books on this subject, and therefore, the author aims to provide readers with a lucidly written, comprehensive text explaining the fundamentals of the fire process and means of protection. Comprising twelve chapters, this well-illustrated book with data tables begins with the introduction of the subject and then proceeds to explain fire process, its chemistry, heat and temperature in fire, hydraulics, active and passive fire protection systems, risk management and insurance, and finally investigations and reconstructions of fire incidents. The book appends

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useful information on fire safety including cases to explain the causes of fire, Indian Standards on fire safety, explosion and properties of some flammable materials. NEW TO THE SECOND EDITION • A chapter on Modelling for Fire Safety • Updated data tables and text wherever necessary TARGET AUDIENCE B.Tech. (Safety and Fire Engineering) B.Tech. (Chemical Engineering)

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