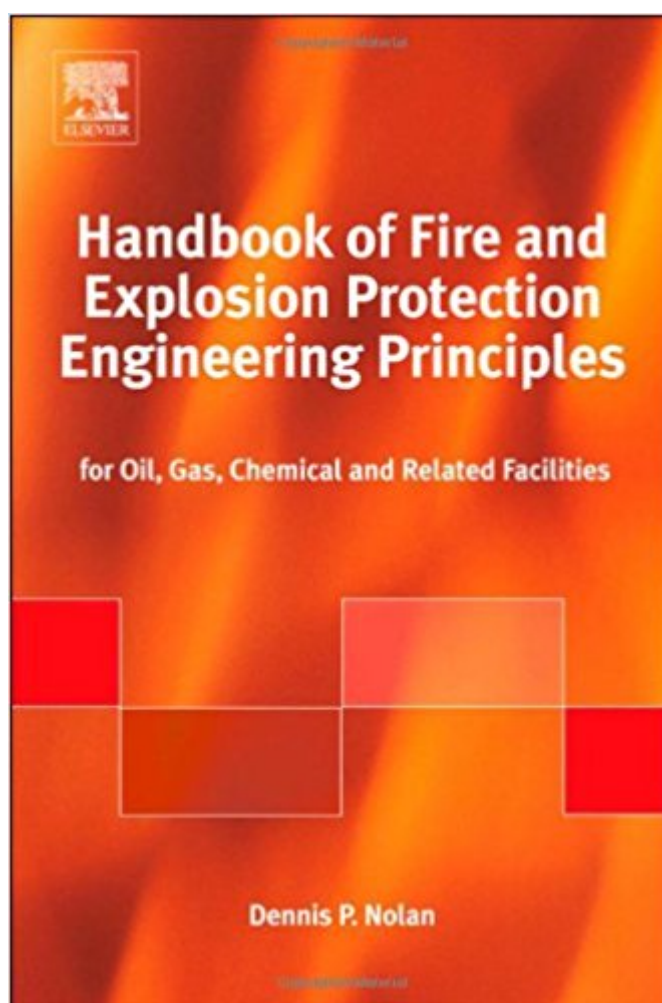




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# **Handbook Of Fire And Explosion Protection Engineering Principles, Second Edition: For Oil, Gas, Chemical And Related Facilities**



## Synopsis

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. 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, 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.

## Book Information

Hardcover: 340 pages

Publisher: William Andrew; 2 edition (December 23, 2010)

Language: English

ISBN-10: 1437778577

ISBN-13: 978-1437778571

Product Dimensions: 6 x 0.8 x 9 inches

Shipping Weight: 1.5 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #897,732 in Books (See Top 100 in Books) #22 in Books > Science & Math > Chemistry > Safety #39 in Books > Engineering & Transportation > Engineering > Chemical > Plant Design #228 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Fossil Fuels > Petroleum

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". ..useful. ..concentrates on risk reduction and risk avoidance."-Australian Mineral Foundation. "

..focuses on risk avoidance techniques and risk reduction methods. ..gives tips on providing for safe employee evacuation and describes the assortment of fire suppression equipment available "-Gas Abstracts.

Dr. Dennis P. Nolan has had a long career devoted to risk engineering, fire protection engineering, loss prevention engineering and systems safety engineering. He holds a Doctor of Philosophy degree in Business Administration from Berne University, Master of Science degree in Systems Management from Florida Institute of Technology and a Bachelor of Science Degree in Fire Protection Engineering from the University of Maryland. He is a U.S. registered professional engineer in fire protection engineering in the state of California. He is currently on the Executive Management staff of Saudi Aramco, located in Dhahran, Saudi Arabia, as a Loss Prevention Consultant/Chief Fire Prevention Engineer. He covers some of the largest oil and gas facilities in the world. As part of his career, he has examined oil production, refining, and marketing facilities under severe conditions and in various unique worldwide locations, including Africa, Asia, Europe, the Middle East, Russia, and North and South America. His activity in the aerospace field has included engineering support for the NASA Space Shuttle launch facilities at Kennedy Space Center (and for those undertaken at Vandenberg Air Force Base, California) and "classified"; national defense systems. Dr. Nolan has received numerous safety awards and is a member of the American Society of Safety Engineers. He is the author of many technical papers and professional articles in various international fire safety publications. He has written at least four books, several published by Elsevier.

As I am a member in the Kuwaiti Oil Wells Fire Fighting Team and a Retired Fire Bregadier in Kuwait Oil Company , this book is valueable reference for me.Regards.

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