

# Handbook of Fire and Explosion Protection Engineering Principles: for Oil, Gas, Chemical and Related Facilities

Dennis P. Nolan



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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 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, 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.



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