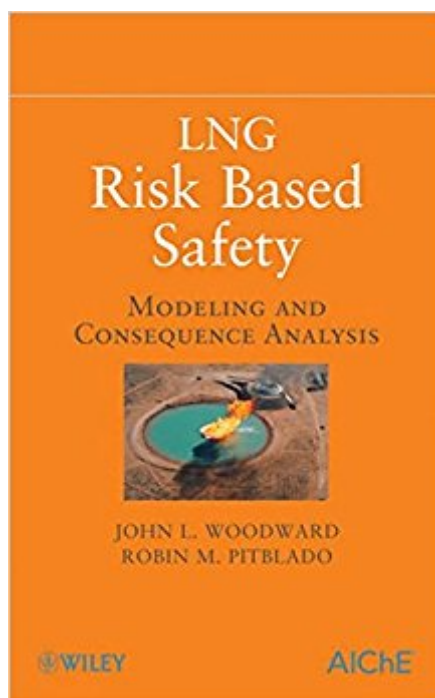


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LNG Risk Based Safety: Modeling And Consequence Analysis



Synopsis

Liquefied Natural Gas (LNG) is the only viable way to extract and transport natural gas from areas not serviceable by a pipeline, but it also poses safety risks. This book examines the safety concerns regarding LNG, and examines the debate between its advocates and its opponents. The text considers risks on the extraction, transportation, and maintenance of LNG; includes discussion of case studies and LNG-related accidents over the past half-century; and summarizes the findings of the Governmental Accountability Office's (GAO) survey of nineteen LNG experts from across North America and Europe.

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Customer Reviews

The expert, all-inclusive guide on LNG risk based safety Liquefied Natural Gas (LNG) is the condensed form of natural gas achieved by cryogenic chilling. This process reduces gas to a liquid 600 times smaller in volume than it is in its original state, making it suitable for economical global transportation. LNG has been traded internationally and used with a good safety record since the 1960s. However, with some accidents occurring with the storage and liquefaction of LNG, a good understanding of its mechanisms, and its potential ramifications to facilities and to the nearby public, is becoming critically important. With an unbiased eye, this book leans on the expertise of its authors and LNG professionals worldwide to examine these serious safety issues, while addressing many false assumptions surrounding this volatile energy source. LNG Risk Based Safety:

Summarizes the findings of the Governmental Accountability Office's (GAO) survey of nineteen LNG experts from across North America and Europe. Reviews the history of LNG technology developments. Systematically reviews the various consequences from LNG releases—discharge, evaporation, dispersion, fire, and other impacts, and identifies best current approaches to model possible consequence zones. Includes discussion of case studies and LNG-related accidents over the past fifty years. Covering every aspect of this controversial topic, LNG Risk Based Safety informs the reader with firm conclusions based on highly credible investigation, and offers practical recommendations that researchers and developers can apply to reduce hazards and extend LNG technology.

JOHN L. WOODWARD, PhD, is Senior Principal Consultant in the Process Safety Division of Baker Engineering and Risk Consultants, Inc. in San Antonio, Texas. He has been actively involved in consequence modeling for both the DNV PHAST and BakerRisk SafeSite codes for many years. He was invited by the GAO (Government Accountability Office) as part of a team of LNG experts to review LNG safety issues. ROBIN M. PITBLADO, PhD, is Director for SHE Risk Management for Det Norske Veritas and is based in Houston, Texas. He has been active in consequence modeling, risk assessment and major accident investigation for over thirty years and was also a member of the GAO Panel of LNG Experts.

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