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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Part III -- 14.Methodology for Quantified Risk Assessment -- 15. Analysis Techniques -- 16.Presentation of Risk Results from QRA Studies -- 17.Evaluation of Personnel Risk Levels -- 18.Environmental Risk Analysis -- 19.Approach to Risk Based Design -- 20.Risk based Emergency Response Planning -- Part IV -- 21.Use of Risk Analysis during the Operations Phase -- 22.Use of Risk Indicators for Major Hazard Risk -- 23.Barrier Management for Major Hazard Risk -- Appendix A.Overview of Software -- Appendix B.Overview of Fatalities in Norwegian Sector -- Appendix C.Network Resources.
Sommario/riassunto	Offshore Risk Assessment was the first book to deal with quantified risk assessment (QRA) as applied specifically to offshore installations and operations. Risk assessment techniques have been used for more

than three decades in the offshore oil and gas industry, and their use is set to expand increasingly as the industry moves into new areas and faces new challenges in older regions. This updated and expanded third edition has been informed by a major R&D program on offshore risk assessment in Norway and summarizes research from 2006 to the present day. Rooted with a thorough discussion of risk metrics and risk analysis methodology, subsequent chapters are devoted to analytical approaches to escalation, escape, evacuation and rescue analysis of safety and emergency systems. Separate chapters analyze the main hazards of offshore structures: fire, explosion, collision, and falling objects as well as structural and marine hazards. Risk mitigation and control are discussed, as well as an illustration of how the results from quantitative risk assessment studies should be presented. The third edition has a stronger focus on the use of risk assessment techniques in the operation of offshore installations. Also decommissioning of installations is covered. Not only does Offshore Risk Assessment describe the state of the art of QRA, it also identifies weaknesses and areas that need further development. This new edition also illustrates applications of quantitative risk analysis methodology to offshore petroleum applications. A comprehensive reference for academics and students of marine/offshore risk assessment and management, the book should also be owned by professionals in the industry, contractors, suppliers, consultants and regulatory authorities.

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