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Nota di contenuto	front cover; copyright; table of contents; front matter; Acknowledgments; Foreword; body; 1. Introduction; 1.1 THE SITUATION; 1.1.1 Reliability; 1.1.2 Risk; 1.2 HANDLING THE SITUATION; 1.3 MANAGEMENT OF THE HAZARDS, OR THE POTENTIAL FOR MISHAP; 1.4 WHY BOTHER WITH RISK MANAGEMENT, ANYWAY?; 1.4.1 Legal Requirements; 1.4.2 Commercial Requirements; 1.4.3 Moral or Ethical Requirements; 1.4.4 Three Variables: Cost, Risk, and Professional Skill; 1.5 THE BENEFITS OF RISK MANAGEMENT; 1.6 FIELDS OF RISK MANAGEMENT; 1.7 SCOPE OF PROCESS RISK AND RELIABILITY MANAGEMENT; 1.8 THE RISK SPECTRUM 1.9 STEPS IN RISK MANAGEMENT OF A PROCESS PLANT1.10 RISK MANAGEMENT WITHOUT NUMBERS; 1.11 SOME ILLUSTRATIONS OF THE APPROACH; 1.12 DEFINE THE CONTEXT; 2. Hazard Identification; 2.1 INTRODUCTION; 2.1.1 Situation; 2.1.2 Sources of Major Hazard; 2.2 TYPES OF IMPACT; 2.3 TYPICAL TYPES OF INCIDENTS LEADING TO THE IMPACT; 2.4 TYPES OF PROCESS PLANT INCIDENTS; 2.4.1 Introduction; 2.4.2 Major Fires; 2.4.3 BLEVEs or Fireballs; 2.4.4 Flash Fires; 2.4.5 Vapor Cloud Explosion; 2.4.6 Dust Explosions; 2.4.7 Other Explosions; 2.4.8 Toxic Gas Escapes; 2.4.9 Toxic Fumes from Fires 2.4.10 Chronic Toxic Exposure2.4.11 Damage to the Environment due to Toxic Liquid or Gas Release; 2.4.12 "Domino" Incidents; 2.4.13 Major Equipment Breakdown; 2.4.14 General Comment; 2.5 APPROACHES TO

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Sommario/riassunto

There is much specialist material written about different elements of managing risks of hazardous industries, such as hazard identification, risk analysis, and risk management. Managing Risk and Reliability of Process Plants provides a systematic and integrated coverage of all these elements in sufficient detail for the reader to be able to pursue more detailed study of particular elements or topics from a good appreciation of the whole field. The reader would use this book to keep up to date with new developments and, if they are new to the job, to learn more about the subject. The te

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