1. Record Nr. UNISA996199267803316 Autore Arendt J. S (J. Steven), <1952-> Titolo Evaluating process safety in the chemical industry [[electronic resource] ]: a user's guide to quantitative risk analysis / / J.S. Arendt, D.K. Lorenzo Pubbl/distr/stampa Arlington, Va., : American Chemistry Council New York, : Center for Chemical Process Safety, c2000 **ISBN** 1-282-78334-3 9786612783340 0-470-93546-4 1-59124-574-5 0-470-93545-6 Descrizione fisica 1 online resource (108 p.) Collana CCPS concept book Altri autori (Persone) LorenzoD. K <1955-> (Donald K.) Disciplina 660.2804 660/.2804 Soggetti Chemical plants - Risk assessment Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references. Nota di contenuto Evaluating Process Safety in the Chemical Industry: A User's Guide to Quantitative Risk Analysis: CONTENTS; List of Figures; List of Tables: Preface; Acknowledgments; Executive Summary; Advice for the Reader; Acronyms; Glossary; 1 INTRODUCTION; 1.1. BACKGROUND; 1.2. THE PROCESS OF RISK ANALYSIS; 1.3. DEFINITION OF QRA; 1.4. MISCONCEPTIONS ABOUT QRA; 2 DECIDING WHETHER TO USE QRA; 2.1. SOME REASONS FOR CONSIDERING QRA; 2.2. TYPES OF INFORMATION AVAILABLE FROM RISK STUDIES: 2.3. CRITERIA FOR ELECTING TO USE QRA; 3 MANAGEMENT USE OF QRA; 3.1. CHARTERING THE ANALYSIS; 3.1.1. Study Objective 3.1.2. Scope3.1.3. Technical Approach; 3.1.4. Resources; 3.2. SELECTING QRATECHNIQUES; 3.2.1. Hazard Identification; 3.2.2. Consequence Analysis; 3.2.3. Frequency Analysis; 3.2.4. Risk Evaluation and Presentation: 3.3. UNDERSTANDING THE ASSUMPTIONS AND

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Sommario/riassunto

Quantitative Risk Analysis is a powerful tool used to help manage risk and improve safety. When used appropriately, it provides a rational basis for evaluating process safety and comparing alternative safety improvements. This guide, an update of an earlier American Chemistry Council (ACC) publication utilizing the ""hands-on"" experience of CPI risk assessment practitioners and safety professionals involved with the CCPS and ACC, explains how managers and users can make better-informed decisions about QRA, and how plant engineers and process designers can better understand, interpret and use