Record Nr. UNINA9910789245403321 Autore Stamatis D. H. <1947, > Titolo Introduction to risk and failures: tools and methodologies // D.H. **Stamatis** Pubbl/distr/stampa Boca Raton:,: Taylor & Francis,, [2014] ©2014 **ISBN** 0-429-16540-4 1-4822-3480-7 Edizione [1st edition] Descrizione fisica 1 online resource (270 p.) Classificazione TEC017000TEC032000 Disciplina 620.00452 620/.00452 Soggetti Failure analysis (Engineering) Risk assessment Industrial safety Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Includes bibliographical references. Nota di bibliografia Front Cover; Contents; List of Figures; List of Tables; Acronyms; Nota di contenuto Preface: Acknowledgments: Author: Introduction: Chapter 1: Risk: Chapter 2: Approaches to Risk; Chapter 3: Types of Risk Methodologies; Chapter 4: Preliminary Hazard Analysis (PHA); Chapter 5: HAZOP Analysis; Chapter 6: Fault Tree Analysis (FTA); Chapter 7: Other Risk and HAZOP Analysis Methodologies; Chapter 8: Teams and Team Mechanics; Chapter 9: OSHA Job Hazard Analysis; Chapter 10: Hazard Communication Based on Standard CFR 910.1200; Appendix A: Checklists; Appendix B: HAZOP Analysis Example; Back Cover Sommario/riassunto Risk is everywhere, in everything we do. Realizing this fact, we all must try to understand this risk and if possible to minimize it. This book expands the conversation beyond failure mode and effects analysis (FMEA) techniques. While FMEA is indeed a powerful tool to forecast failures for both design and processes, it is missing methods for considering safety issues, catastrophic events, and their consequences. This new book focuses on risk and HAZOP as they relate to major catastrophic events, safety, and risk. Specifically it addresses the

process and implementation as well as understanding the fundamentals

of using a risk methodology in a given organization for evaluating major safety and or catastrophic problems.--