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| Edizione                | [1st edition]  |
| Descrizione fisica      | 1 online resource (363 p.)   |
| Collana                 | Ashgate studies in resilience engineering  |
| Altri autori (Persone)  | HollnagelErik <1941->  |
| Disciplina              | 620/.00452   |
| Soggetti                | Reliability (Engineering)<br>Fault tolerance (Engineering)   |
| 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 and index.   |
| Nota di contenuto       | Cover; Contents; List of Figures; List of Tables; List of Contributors; Prologue: The Scope of Resilience Engineering by Erik Hollnagel; PART I Dealing with the Actual; Chapter 1 Resilience and the Ability to Respond; Chapter 2 Lessons from the Hudson; Chapter 3 Coping with Uncertainty. Resilient Decisions in Anaesthesia; Chapter 4 Training Organisational Resilience in Escalating Situations; PART II Dealing with the Critical; Chapter 5 Monitoring - A Critical Ability in Resilience Engineering; Chapter 6 From Flight Time Limitations to Fatigue Risk Management Systems - A Way Toward Resilience Chapter 7 Practices for Noticing and Dealing with the Critical. A Case Study from MaintenanceChapter 8 Cognitive Strategies in Emergency and Abnormal Situations Training; PART III Dealing with the Potential; Chapter 9 Resilience and the Ability to Anticipate; Chapter 10 Basic Patterns in How Adaptive Systems Fail; Chapter 11 Measuring Resilience in the Planning of Rail Engineering Work; Chapter 12 The Art of Balance: Using Upward Resilience Traits to Deal with Conflicting Goals; Chapter 13 The Importance of Functional Interdependencies in Financial Services Systems |

PART IV Dealing with the FactualChapter 14 To Learn or Not to Learn, that is the Question; Chapter 15 No Facts, No Glory; Chapter 16 From Myopic Coordination to Resilience in Socio-technical Systems; Chapter 17 Requisites for Successful Incident Reporting in Resilient Organisations; Chapter 18 Is the Aviation Industry Ready for Resilience? Mapping Human Factors Assumptions; Epilogue: RAG - The Resilience Analysis Grid by Erik Hollnagel; Bibliography; Author Index; Subject Index

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Sommario/riassunto

Resilience engineering has since 2004 attracted widespread interest from industry as well as academia. Practitioners from various fields, such as aviation and air traffic management, patient safety, off-shore exploration and production, have quickly realised the potential of resilience engineering and have become early adopters. The continued development of resilience engineering has focused on four abilities that are essential for resilience. These are the ability a) to respond to what happens, b) to monitor critical developments, c) to anticipate future threats and opportunities, and d) to le

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