Record Nr. UNINA9910785473403321 Resilience engineering in practice [[electronic resource]]: a guidebook **Titolo** // edited by Erik Hollnagel ... [et al.] Pubbl/distr/stampa Farnham, Surrey, England;; Burlington, VT,: Ashgate, 2010 **ISBN** 1-315-60569-4 1-317-06525-5 1-282-90724-7 9786612907241 1-4094-1036-6 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) 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;

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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 became 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