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| 1. Record Nr.           | UNINA9910138866903321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Titolo                  | Construction reliability [[electronic resource] ] : safety, variability and sustainability / / edited by Julien Baroth, Franck Schoefs, Denys Breysse                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Pubbl/distr/stampa      | London, : ISTE<br>Hoboken, N.J., : John Wiley, 2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ISBN                    | 1-118-60109-2<br>1-118-60112-2<br>1-118-60094-0<br>1-299-18756-0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Descrizione fisica      | 1 online resource (365 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Collana                 | ISTE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Altri autori (Persone)  | BarothJulien<br>SchoefsFranck<br>BreysseD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Disciplina              | 624                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Soggetti                | Buildings - Reliability<br>Public works - Reliability<br>Structural failures - Prevention                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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       | pt. 1. Qualitative methods for evaluating the reliability of civil engineering structures -- pt. 2. Heterogeneity and variability of materials : consequences for safety and reliability -- pt. 3. Metamodels for structural reliability -- pt. 4. Methods for structural reliability over time -- pt. 5. Reliability-based maintenance optimization.                                                                                                                                                                                                                                                                    |
| Sommario/riassunto      | This book provides answers to the following problems: how to identify the most probable critical failures; how to describe and use data-concerning materials that are either heterogeneous, time-variant, or space-variant; how to quantify the reliability and lifetime of a system; how to use feedback information to actualize reliability results; and how to optimize an inspection politic or a maintenance strategy. Numerous authors from public research centers and firms propose a synthesis of methods, both new and well-known, and offer numerous examples concerning dams, geotechnical study, and struc |

