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| 1. Record Nr. | UNIPARTHENOPE000009768 |
| Autore | Borja, Jordi |
| Titolo | Le contraddizioni dello sviluppo urbano / Jordi Borja ; premessa di Franco Ferrarotti |
| Pubbl/distr/stampa | Napoli : Liguori, 1975 |
| Descrizione fisica | 128 p. ; 20 cm |
| Collana | Contributi di sociologia ; 23 |
| Disciplina | 307.1416
711.58 |
| Collocazione | 711.58/102 |
| Lingua di pubblicazione | Italiano |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| 2. Record Nr. | UNINA9910822629503321 |
| Autore | Grous Ammar |
| Titolo | Applied reliability // Ammar Grous |
| Pubbl/distr/stampa | London, : ISTE
Hoboken, N.J., : Wiley, 2013 |
| ISBN | 9781118580028
1118580028
9781118580103
1118580109
9781118580066
1118580060 |
| Edizione | [1st ed.] |
| Descrizione fisica | 1 online resource (364 p.) |
| Collana | Fracture mechanics ; ; 2
Mechanical engineering and solid mechanics series |
| Disciplina | 620.0045 |
| Soggetti | Reliability (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	<p>Title Page; Contents; Preface; Glossary; Chapter 1. Fracture Mechanisms by Fatigue; 1.1. Introduction; 1.2. Principal physical mechanisms of cracking by fatigue; 1.2.1. Fracture mechanics; 1.2.2. Criteria of fracture (plasticity) in mechanics; 1.3. Modes of fracture; 1.3.1. Directed works; 1.4. Fatigue of metals: analytical expressions used in reliability; 1.4.1. Wohler's law; 1.4.2. Basquin's law (1910); 1.4.3. Stromayer's law (1914); 1.4.4. Palmgren's law; 1.4.5. Corson's law (1949); 1.4.6. Bastenaire's law; 1.4.7. Weibull's law; 1.4.8. Henry's law; 1.4.9. Corten and Dolen's law 1.4.10. Manson-Coffin's law 1.5. Reliability models commonly used in fracture mechanics by fatigue; 1.5.1. Coffin-Manson's model for the analysis of crack propagation; 1.5.2. Neuber's relation (1958); 1.5.3. Arrhenius' model; 1.5.4. Miner's law (1954); 1.6. Main common laws retained by fracture mechanics; 1.6.1. Fost and Dugdale's law; 1.6.2. McEvily's law (1979); 1.6.3. Paris's law; 1.6.4. G.R. Sih's law; 1.7. Stress intensity factors in fracture mechanics; 1.7.1. Maddox's model; 1.7.2. Gross and Srawley's model; 1.7.3. Lawrence's model; 1.7.4. Martin and Bousseau's model 1.7.5. Gurney's model 1.7.6. Engesvik's model; 1.7.7. Yamada and Albrecht's model; 1.7.8. Tomkins and Scott's model; 1.7.9. Harrison's model; 1.8. Intrinsic parameters of the material (C and m); 1.9. Fracture mechanics elements used in reliability; 1.10. Crack rate (life expectancy) and s.i.f. (K); 1.10.1. Simplified version of Taylor's law for machining; 1.11. Elements of stress (S) and resistance theory (R); 1.11.1. Case study, part 2 - suspension bridge (Cirta); 1.11.2. Case study: failure surface of geotechnical materials; 1.12. Conclusion; 1.13. Bibliography</p> <p>2.4.1. Development and calculations 2.5. Confidence interval for estimating a normal mean: unknown variance; 2.6. Conclusion; 2.7. Bibliography; Chapter 3. Analysis of the Reliability of Materials and Structures by the Bayesian Approach; 3.1. Introduction to the Bayesian method used to evaluate reliability; 3.2. Posterior distribution and conjugate models; 3.2.1. Independent events; 3.2.2. Counting diagram; 3.3. Conditional probability or Bayes' law; 3.4. Anterior and posterior distributions; 3.5. Reliability analysis by moments methods, FORM/SORM</p> <p>3.6. Control margins from the results of fracture mechanics</p>
Sommario/riassunto	<p>This second book of a 3-volume set on Fracture Mechanics completes the first volume through the analysis of adjustment tests suited to correctly validating the justified use of the laws conforming to the behavior of the materials and structures under study. This volume focuses on the vast range of statistical distributions encountered in reliability. Its aim is to run statistical measurements, to present a report on enhanced measures in mechanical reliability and to evaluate the reliability of repairable or unrepairable systems. To achieve this, the author presents a theoretical and</p>