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| Descrizione fisica | 1 online resource (237 p.) |
| Collana | Series on quality, reliability & engineering statistics ; ; v. 13 |
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| Soggetti | Reliability (Engineering) Risk assessment |
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| Nota di bibliografia | Includes bibliographical references. |
| Nota di contenuto | Contents; 1 . Introduction; 2 . Basic concepts of safety and risk analysis; 3 . Methods for hazard identification; 4 . Basics of probability theory for applications to reliability and risk analysis; 5 . Reliability of simple systems; 6 . Availability and maintainability; 7 . Fault tree analysis; 8 . Event tree analysis; 9 . Estimation of reliability parameters from experimental data; Appendix A: Table of Standard Normal Cumulative Distribution; Appendix B: Table of Chi-square Cumulative Distribution |
| Sommario/riassunto | The necessity of expertise for tackling the complicated and multidisciplinary issues of safety and risk has slowly permeated into all engineering applications so that risk analysis and management has gained a relevant role, both as a tool in support of plant design and as an indispensable means for emergency planning in accidental situations. This entails the acquisition of appropriate reliability modeling and risk analysis tools to complement the basic and specific engineering knowledge for the technological area of application. Aimed at providing an organic view of the subject, this book pro |