

1. Record Nr.	UNINA9910141422503321
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Titolo	Using the Weibull distribution [[electronic resource] ] : reliability, modeling, and inference // John I. McCool
Pubbl/distr/stampa	Hoboken, N.J., : John Wiley & Sons, c2012
ISBN	1-283-57135-8 9786613883803 1-118-35199-1 1-118-35198-3 1-118-35196-7
Descrizione fisica	1 online resource (368 p.)
Collana	Wiley series in probability and statistics
Disciplina	519.2/4
Soggetti	Weibull distribution Probabilities
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	Using the Weibull Distribution; Contents; Preface; CHAPTER 1: Probability; 1.1 SAMPLE SPACES AND EVENTS; 1.2 MUTUALLY EXCLUSIVE EVENTS; 1.3 VENN DIAGRAMS; 1.4 UNIONS OF EVENTS AND JOINT PROBABILITY; 1.5 CONDITIONAL PROBABILITY; 1.6 INDEPENDENCE; 1.7 PARTITIONS AND THE LAW OF TOTAL PROBABILITY; 1.8 RELIABILITY; 1.9 SERIES SYSTEMS; 1.10 PARALLEL SYSTEMS; 1.11 COMPLEX SYSTEMS; 1.12 CROSSLINKED SYSTEMS; 1.13 RELIABILITY IMPORTANCE; REFERENCES; EXERCISES; CHAPTER 2: Discrete and Continuous Random Variables; 2.1 PROBABILITY DISTRIBUTIONS; 2.2 FUNCTIONS OF A RANDOM VARIABLE 2.3 JOINTLY DISTRIBUTED DISCRETE RANDOM VARIABLES 2.4 CONDITIONAL EXPECTATION; 2.5 THE BINOMIAL DISTRIBUTION; 2.5.1 Confidence Limits for the Binomial Proportion p; 2.6 THE POISSON DISTRIBUTION; 2.7 THE GEOMETRIC DISTRIBUTION; 2.8 CONTINUOUS RANDOM VARIABLES; 2.8.1 The Hazard Function; 2.9 JOINTLY DISTRIBUTED CONTINUOUS RANDOM VARIABLES; 2.10 SIMULATING SAMPLES FROM CONTINUOUS DISTRIBUTIONS; 2.11 THE NORMAL DISTRIBUTION; 2.12 DISTRIBUTION OF THE SAMPLE MEAN; 2.12.1 $P\{X <$

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Sommario/riassunto

Understand and utilize the latest developments in Weibull inferential methods While the Weibull distribution is widely used in science and engineering, most engineers do not have the necessary statistical training to implement the methodology effectively. Using the Weibull Distribution: Reliability, Modeling, and Inference fills a gap in the current literature on the topic, introducing a self-contained presentation of the probabilistic basis for the methodology while providing powerful techniques for extracting information from data. The author explai

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