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	Descrizione fisica	1 online resource (604 p.)
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	Soggetti	Engineering - Statistical methods Probabilities Modellbildung Statistik Versuchsplanung Wahrscheinlichkeitsrechnung Wahrscheinlichkeitstheorie MATHEMATICS / Probability & Statistics / General
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	Nota di contenuto	Frontmatter -- Introduction / Mathai, A. M. / Haubold, Hans J. -- Preface / Mathai, A. M. / Haubold, Hans J. -- Acknowledgement -- Contents -- List of Tables -- List of Symbols -- 1. Random phenomena -- 2. Probability -- 3. Random variables -- 4. Expected values -- 5. Commonly used discrete distributions -- 6. Commonly used density functions -- 7. Joint distributions -- 8. Some multivariate distributions -- 9. Collection of random variables -- 10. Sampling distributions -- 11. Estimation -- 12. Interval estimation -- 13. Tests of statistical hypotheses -- 14. Model building and regression -- 15. Design of experiments and analysis of variance -- 16. Questions and answers -- Tables of percentage points -- References -- Index
	Sommario/riassunto	This book offers an introduction to concepts of probability theory, probability distributions relevant in the applied sciences, as well as basics of sampling distributions, estimation and hypothesis testing. As

a companion for classes for engineers and scientists, the book also covers applied topics such as model building and experiment design. ContentsRandom phenomenaProbabilityRandom variablesExpected valuesCommonly used discrete distributionsCommonly used density functionsJoint distributionsSome multivariate distributionsCollection of random variablesSampling distributionsEstimationInterval estimationTests of statistical hypothesesModel building and regressionDesign of experiments and analysis of varianceQuestions and answers