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Titolo	Probability and Statistics : A Course for Physicists and Engineers // Arak M. Mathai, Hans J. Haubold
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Descrizione fisica	1 online resource (604 p.)
Collana	De Gruyter Textbook
Classificazione	SK 800
Disciplina	519.2
Soggetti	Engineering - Statistical methods Probabilities Modellbildung Statistik Versuchsplanung Wahrscheinlichkeitsrechnung Wahrscheinlichkeitstheorie MATHEMATICS / Probability & Statistics / General
Lingua di pubblicazione	Inglese
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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. Contents Random phenomena Probability Random variables Expected values Commonly used discrete distributions Commonly used density functions Joint distributions Some multivariate distributions Collection of random variables Sampling distributions Estimation Interval estimation Tests of statistical hypotheses Model building and regression Design of experiments and analysis of variance Questions and answers
