

1. Record Nr.	UNINA9910254086403321
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Titolo	Elements of Probability and Statistics : An Introduction to Probability with de Finetti's Approach and to Bayesian Statistics // by Francesca Biagini, Massimo Campanino
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-07254-4
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (XV, 246 p. 33 illus., 27 illus. in color.)
Collana	La Matematica per il 3+2, , 2038-5757 ; ; 98
Disciplina	519.2
Soggetti	Probabilities Statistics Computer science - Mathematics Mathematical statistics Business mathematics Mathematical physics Engineering mathematics Engineering - Data processing Probability Theory Statistical Theory and Methods Probability and Statistics in Computer Science Business Mathematics Mathematical Methods in Physics Mathematical and Computational Engineering Applications
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1 Random numbers -- 2 Discrete distributions -- 3 One-dimensional absolutely continuous distributions -- 4 Multi-dimensional absolutely continuous distributions -- 5 Convergence of distributions -- 6 Discrete time Markov chains -- 7 Continuous time Markov chains -- 8 Statistics -- 9 Combinatorics -- 10 Discrete distributions -- 11 One-dimensional absolutely continuous distributions -- 12 Absolutely continuous and multivariate distributions -- 13 Markov chains -- 14

Statistics -- 15 Elements of combinatorics -- 16 Relations between discrete and absolutely continuous distributions -- 17 Some discrete distributions -- 18 Some one-dimensional absolutely continuous distributions -- 19 The normal distribution -- 20 Stirling's formula -- 21 Elements of analysis -- 22 Bidimensional integrals.

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## Sommario/riassunto

This book provides an introduction to elementary probability and to Bayesian statistics using de Finetti's subjectivist approach. One of the features of this approach is that it does not require the introduction of sample space – a non-intrinsic concept that makes the treatment of elementary probability unnecessarily complicate – but introduces as fundamental the concept of random numbers directly related to their interpretation in applications. Events become a particular case of random numbers and probability a particular case of expectation when it is applied to events. The subjective evaluation of expectation and of conditional expectation is based on an economic choice of an acceptable bet or penalty. The properties of expectation and conditional expectation are derived by applying a coherence criterion that the evaluation has to follow. The book is suitable for all introductory courses in probability and statistics for students in Mathematics, Informatics, Engineering, and Physics.

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