1. Record Nr. UNINA9910438032603321

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Titolo	Probability Models / / by John Haigh
Pubbl/distr/stampa	London : , : Springer London : , : Imprint : Springer, , 2013
ISBN	1-4471-5343-X
Edizione	[2nd ed. 2013.]
Descrizione fisica	1 online resource (XII, 287 p. 17 illus.)
Collana	Springer Undergraduate Mathematics Series, , 1615-2085
Disciplina	519.2
Soggetti	Probabilities Computer simulation Mathematical statistics Operations research Decision making Computer science—Mathematics Computer science - Mathematics Mathematical physics Probability Theory and Stochastic Processes Simulation and Modeling Probability and Statistics in Computer Science Operations Research/Decision Theory Mathematical Applications in Computer Science Mathematical Applications in the Physical Sciences
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	Probability Spaces -- Conditional Probability and Independence -- Common Probability Distributions -- Random Variables -- Sums of Random Variables -- Convergence and Limit Theorems -- Stochastic Processes in Discrete Time -- Stochastic Processes in Continuous Time -- Appendix: Common Distributions and Mathematical Facts.
Sommario/riassunto	The purpose of this book is to provide a sound introduction to the study of real-world phenomena that possess random variation. It describes how to set up and analyse models of real-life phenomena that involve elements of chance. Motivation comes from everyday

experiences of probability, such as that of a dice or cards, the idea of fairness in games of chance, and the random ways in which, say, birthdays are shared or particular events arise. Applications include branching processes, random walks, Markov chains, queues, renewal theory, and Brownian motion. This popular second edition textbook contains many worked examples and several chapters have been updated and expanded. Some mathematical knowledge is assumed. The reader should have the ability to work with unions, intersections and complements of sets; a good facility with calculus, including integration, sequences and series; and appreciation of the logical development of an argument. Probability Models< is designed to aid students studying probability as part of an undergraduate course on mathematics or mathematics and statistics.