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Titolo	Introduction to Probability with Statistical Applications / / by Géza Schay
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ISBN	3-319-30620-0
Edizione	[2nd ed. 2016.]
Descrizione fisica	1 online resource (XII, 385 p. 49 illus.)
Disciplina	519.5
Soggetti	Probabilities Statistics Mathematical statistics Measure theory Applied mathematics Engineering mathematics Probability Theory and Stochastic Processes Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences Probability and Statistics in Computer Science Measure and Integration Applications of Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- The Algebra of Events -- Combinatorial Problems -- Probabilities -- Random Variables -- Expectation, Variance, Moments -- Some Special Distributions -- The Elements of Mathematical Statistics.
Sommario/riassunto	Now in its second edition, this textbook serves as an introduction to probability and statistics for non-mathematics majors who do not need the exhaustive detail and mathematical depth provided in more comprehensive treatments of the subject. The presentation covers the mathematical laws of random phenomena, including discrete and continuous random variables, expectation and variance, and common probability distributions such as the binomial, Poisson, and normal

distributions. More classical examples such as Montmort's problem, the ballot problem, and Bertrand’s paradox are now included, along with applications such as the Maxwell-Boltzmann and Bose-Einstein distributions in physics. Key features in new edition: * 35 new exercises * Expanded section on the algebra of sets * Expanded chapters on probabilities to include more classical examples * New section on regression * Online instructors' manual containing solutions to all exercises <advanced undergraduate="" and="" graduate="" students="" in="" computer="" science,="" engineering,="" other="" natural="" social="" sciences="" with="" only="" a="" basic="" background="" calculus="" will="" benefit="" from="" this="" introductory="" text="" balancing="" theory="" applications. advanced="" applications. <advanced undergraduate="" and="" graduate="" students="" in="" computer="" science,="" engineering,="" other="" natural="" social="" sciences="" with="" only="" a="" basic="" background="" calculus="" will="" benefit="" from="" this="" introductory="" text="" balancing="" theory="" applications.review="" of="" the="" first="" edition: This textbook is a classical and well-written introduction to probability theory and statistics. … the book is written ‘for an audience such as computer science students, whose mathematical background is not very strong and who do not need the detail and mathematical depth of similar books written for mathematics or statistics majors.’ … Each new concept is clearly explained and is followed by many detailed examples. … numerous examples of calculations are given and proofs are well-detailed." (Sophie Lemaire, Mathematical Reviews, Issue 2008 m).