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Titolo	Sample Path Analysis and Distributions of Boundary Crossing Times [e-book] / by Shelemyahu Zacks
ISBN	9783319670591 331967059X
Descrizione fisica	1 online resource (xiii, 135 pages) : illustrations (some color)
Collana	Lecture notes in mathematics, 0075-8434 ; 2203
Classificazione	AMS 60-02 LC QA274.42
Altri autori (Enti)	SpringerLink (Online service)
Disciplina	519.24
Soggetti	Poisson processes Operations research Management science Probabilities
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index
Nota di contenuto	Introduction ; Technical Prerequisites ; First Crossing by Poisson Processes ; First Crossing by Compound Poisson Processes ; Telegraph Processes ; Sequential Estimation ; First Crossing a Random Process ; Failure Times of Deterioration Processes ; Miscellaneous Topics
Sommario/riassunto	This monograph is focused on the derivations of exact distributions of first boundary crossing times of Poisson processes, compound Poisson processes, and more general renewal processes. The content is limited to the distributions of first boundary crossing times and their applications to various stochastic models. This book provides the theory and techniques for exact computations of distributions and moments of level crossing times. In addition, these techniques could replace simulations in many cases, thus providing more insight about the phenomena studied. This book takes a general approach for studying telegraph processes and is based on nearly thirty published papers by the author and collaborators over the past twenty five years. No prior knowledge of advanced probability is required, making the book widely available to students and researchers in applied probability, operations research, applied physics, and applied

