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| Titolo | Stochastic Epidemic Models with Inference [[electronic resource] /] / edited by Tom Britton, Etienne Pardoux |
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| Descrizione fisica | 1 online resource (xviii, 472 pages) : illustrations |
| Collana | Mathematical Biosciences Subseries, , 2524-6771 ; ; 2255 |
| Disciplina | 614.4072 |
| Soggetti | Probabilities Epidemiology Biomathematics Probability Theory and Stochastic Processes Mathematical and Computational Biology |
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| Sommario/riassunto | Focussing on stochastic models for the spread of infectious diseases in a human population, this book is the outcome of a two-week ICPAM/CIMPA school on "Stochastic models of epidemics" which took place in Ziguinchor, Senegal, December 5–16, 2015. The text is divided into four parts, each based on one of the courses given at the school: homogeneous models (Tom Britton and Etienne Pardoux), two-level mixing models (David Sirl and Frank Ball), epidemics on graphs (Viet Chi Tran), and statistics for epidemic models (Catherine Larédo). The CIMPA school was aimed at PhD students and Post Docs in the mathematical sciences. Parts (or all) of this book can be used as the basis for traditional or individual reading courses on the topic. For this reason, examples and exercises (some with solutions) are provided throughout. |