



Stochastic Ordering and Dependence in Applied Probability (Lecture Notes in Statistics)

R. Szekli

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This book is an introductory course in stochastic ordering and dependence in the field of applied probability for readers with some background in mathematics. It is based on lectures and seminars I have been giving for students at Mathematical Institute of Wrocław University, and on a graduate course at Industrial Engineering Department of Texas A&M University, College Station, and addressed to a reader willing to use for example Lebesgue measure, conditional expectations with respect to sigma fields, martingales, or compensators as a common language in this field. In Chapter 1 a selection of one dimensional orderings is presented together with applications in the theory of queues, some parts of this selection are based on the recent literature (not older than five years). In Chapter 2 the material is centered around the strong stochastic ordering in many dimensional spaces and functional spaces. Necessary facts about conditioning, Markov processes and point processes are introduced together with some classical results such as the product formula and Poissonian departure theorem for Jackson networks, or monotonicity results for some renewal processes, then results on stochastic ordering of networks, renewal policies and single server queues connected with Markov renewal processes are given. Chapter 3 is devoted to dependence and relations between dependence and ordering, exemplified by results on queueing networks and point processes among others.

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