1. Record Nr. UNINA9911020023003321 Autore Sennott Linn I. <1943-> Titolo Stochastic dynamic programming and the control of queueing systems // Linn I. Sennott New York, : John Wiley Sons, c1999 Pubbl/distr/stampa **ISBN** 9786612308000 9781282308008 1282308009 9780470317037 0470317035 9780470317877 0470317876 Descrizione fisica 1 online resource (354 p.) Collana Wiley series in probability and statistics. Applied probability and statistics section 519.703 Disciplina 519.82 Soggetti Stochastic programming Dynamic programming Queuing theory Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia "A Wiley-Interscience publication." Note generali Nota di bibliografia Includes bibliographical references (p. 316-323) and index. Nota di contenuto Stochastic Dynamic Programming and the Control of Queueing Systems; Contents; Preface; 1. Introduction; 1.1. Examples; 1.2. Aspects of Control; 1.3. Goals and Summary of Chapters; Bibliographic Notes; Problems; 2. Optimization Criteria; 2.1. Basic Notation; 2.2. Policies: 2.3. Conditional Cost Distributions: 2.4. Optimization Criteria: 2.5. Approximating Sequence Method; Bibliographic Notes; Problems; 3. Fiite Horizon Optimization; 3.1. Finite Horizon Optimality Equation; 3.2. ASM for the Finite Horizon; 3.3. When Does FH(, n) Hold?; 3.4. A Queueing Example; Bibliographic Notes; Problems 4. Lnfinite Horizon Discounted Cost Optimization 4.1 Infinite Horizon Discounted Cost Optimality Equation: 4.2 Solutions to the Optimality Equation: 4.3 Convergence of Finite Horizon Value Functions: 4.4

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A path-breaking account of Markov decision processes-theory and computationThis book's clear presentation of theory, numerous chapter-end problems, and development of a unified method for the computation of optimal policies in both discrete and continuous time make it an excellent course text for graduate students and advanced undergraduates. Its comprehensive coverage of important recent advances in stochastic dynamic programming makes it a valuable working resource for operations research professionals, management scientists, engineers, and others. Stochastic Dynamic Programmi

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