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Titolo	Advanced Simulation-Based Methods for Optimal Stopping and Control : With Applications in Finance / / by Denis Belomestny, John Schoenmakers
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Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Introduction 2 -- Basics of Monte Carlo methods 3 -- Basics of standard optimal stopping, multiple stopping, and optimal control problem 4 -- Dual representations for standard optimal stopping, multiple stopping, and optimal control problems. 5 -- Primal algorithms for optimal stopping problems: regression algorithms, optimization algorithms, policy iteration. Extensions to multiple stopping, examples. 6 -- Multilevel primal algorithms. 7 -- Multilevel dual algorithms 8 -- Convergence analysis of primal algorithms. 9 -- Convergence analysis of dual algorithms. 10 -- Consumption based approaches. 11 -- Dimension reduction for primal algorithms. 12 -- Variance reduction for dual algorithms. 13 -- Conclusion.
Sommario/riassunto	This is an advanced guide to optimal stopping and control, focusing on advanced Monte Carlo simulation and its application to finance. Written for quantitative finance practitioners and researchers in academia, the book looks at the classical simulation based algorithms before

introducing some of the new, cutting edge approaches under development.
