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Autore	Pradat Pierre-Francois
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Sommario/riassunto	This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact

2. Record Nr.	UNINA9911035046603321
Autore	Silvestrov Dmitrii
Titolo	Coupling and Ergodic Theorems for Semi-Markov-Type Processes II : Semi-Markov Processes and Multi-Alternating Regenerative Processes with Semi-Markov Modulation / / by Dmitrii Silvestrov
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Nota di contenuto	Preface -- Introduction -- Summary of Ergodic Theorems for Regenerative Processes -- Modifications of Hitting Times -- Birth-Death-Type Processes -- Semi-Markov Processes with Discrete State Spaces and Embedded Regenerative Processes -- Ergodic Theorems for Queuing Systems -- Semi-Markov Processes with General State Spaces with Atoms -- Semi-Markov Processes with General State Spaces and Distributional Atoms -- Semi-Markov Processes with General State Spaces and One-Step Artificial Regeneration -- Semi-Markov Processes with General State Spaces and Multi-Step Artificial Regeneration -- Multi-Alternating Regenerative Processes with Semi-Markov Modulation -- Multi-Alternating Regenerative Processes Modulating by Uniformly Recurrent Semi-Markov Processes -- Appendix A. Methodological and Bibliographical Notes -- References -- Index.
Sommario/riassunto	Ergodic theorems are a cornerstone of the theory of stochastic processes and their applications. This book is the second volume of a two-volume monograph dedicated to ergodic theorems. While the first volume centers on Markovian and regenerative models, the second volume extends the scope to semi-Markov processes and multi-alternating regenerative processes with semi-Markov modulation and delves into ergodic theorems with explicit power and exponential upper

bounds for convergence rates for such processes. The book offers a powerful and constructive probabilistic framework by employing coupling ergodic theorems presented in the first volume in conjunction with the method of artificial regeneration and test functions.

Theoretical findings are illustrated with applications to semi-Markov Monte Carlo algorithms and perturbed queuing systems featuring explicit convergence rate bounds. Many results presented in the book are groundbreaking, appearing in publication for the first time.

Designed with researchers and advanced students in mind, the content is thoughtfully structured by complexity, making it suitable for self-study or as a resource for upper-level coursework. Each chapter is self-contained and complemented by a comprehensive bibliography, ensuring its value as a long-lasting reference. An essential resource for theoretical and applied research, this book significantly contributes to the field of stochastic processes and will remain a key reference for years to come. .
