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2. Record Nr.	UNINA9910254851103321
Autore	Marchetti Luca
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**Nota di contenuto**

Introduction -- Deterministic Simulation Algorithms -- Stochastic Simulation Algorithms -- Hybrid Simulation Algorithms -- Reaction-Diffusion Systems -- Conclusions and Perspectives.

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**Sommario/riassunto**

This book explains the state-of-the-art algorithms used to simulate biological dynamics. Each technique is theoretically introduced and applied to a set of modeling cases. Starting from basic simulation algorithms, the book also introduces more advanced techniques that support delays, diffusion in space, or that are based on hybrid simulation strategies. This is a valuable self-contained resource for graduate students and practitioners in computer science, biology and bioinformatics. An appendix covers the mathematical background, and the authors include further reading sections in each chapter.

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