

1. Record Nr.	UNINA9910966748903321
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Titolo	A guide to Monte Carlo simulations in statistical physics / / David P. Landau, Kurt Binder
Pubbl/distr/stampa	Cambridge ; ; New York, : Cambridge University Press, c2000
ISBN	0-511-15122-5 0-511-04837-8
Edizione	[1st ed.]
Descrizione fisica	1 online resource (398 p.)
Altri autori (Persone)	BinderK <1944-> (Kurt)
Disciplina	530.13
Soggetti	Monte Carlo method Statistical physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preliminaries; Contents; Preface; 1 Introduction; 2 Some necessary background; 3 Simple sampling Monte Carlo methods; 4 Importance sampling Monte Carlo methods; 5 More on importance sampling Monte Carlo methods for lattice systems; 6 Off-lattice models; 7 Reweighting methods; 8 Quantum Monte Carlo methods; 9 Monte Carlo renormalization group methods; 10 Non-equilibrium and irreversible processes; 11 Lattice gauge models: a brief introduction; 12 A brief view of other methods of computer simulation; 13 Outlook; Appendix; Index
Sommario/riassunto	This book deals with all aspects of Monte Carlo simulation of complex physical systems encountered in condensed-matter physics and statistical mechanics as well as in related fields, for example polymer science and lattice gauge theory. It includes many applications, examples, and exercises throughout.