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Titolo	Theoretical Physics 8 : Statistical Physics // by Wolfgang Nolting
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ISBN	3-319-73827-5
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XIV, 638 p.)
Disciplina	530
Soggetti	Statistical physics Dynamics Quantum theory Mathematical physics Physics Complex Systems Quantum Physics Mathematical Physics Mathematical Methods in Physics Statistical Physics and Dynamical Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Classical statistical physics -- Quantum statistics -- Quantum gases -- Phase transitions -- Solutions of the exercises.
Sommario/riassunto	This textbook offers a clear and comprehensive introduction to statistical physics, one of the core components of advanced undergraduate physics courses. It follows on naturally from the previous volumes in this series, using methods of probability theory and statistics to solve physical problems. The first part of the book gives a detailed overview on classical statistical physics and introduces all mathematical tools needed. The second part of the book covers topics related to quantized states, gives a thorough introduction to quantum statistics, followed by a concise treatment of quantum gases. Ideally suited to undergraduate students with some grounding in quantum mechanics, the book is enhanced throughout with learning

features such as boxed inserts and chapter summaries, with key mathematical derivations highlighted to aid understanding. The text is supported by numerous worked examples and end of chapter problem sets. About the Theoretical Physics series Translated from the renowned and highly successful German editions, the eight volumes of this series cover the complete core curriculum of theoretical physics at undergraduate level. Each volume is self-contained and provides all the material necessary for the individual course topic. Numerous problems with detailed solutions support a deeper understanding. Nolting is famous for his refined didactical style and has been referred to as the "German Feynman" in reviews.
