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Nota di contenuto	Frontmatter -- Authors' introduction -- Contents -- 1 Phenomenological thermodynamics of irreversible processes -- 2 Brownian motion -- 3 Kinetic equations in non-equilibrium statistical mechanics -- 4 Kinetic equation for electrons and phonons in conducting crystals -- 5 Theory of linear response to an external mechanical perturbation -- 6 Non-equilibrium statistical operator method -- 7 Physical principles of spintronics -- 8 Response of a highly non-equilibrium system to a weak measuring field -- 9 Master equation approach -- Bibliography -- Index
Sommario/riassunto	This new edition covers contemporary directions of non-equilibrium statistical mechanics as well as classical methods of kinetics. Supplementary material on the non-equilibrium statistical operator (NSO) method for calculating kinetics coefficients describing spintronics is included in this new addition. This book is an easy-to-read text describing the fundamentals of the field.