



Nonequilibrium Statistical Physics: Linear Irreversible Processes (Oxford Graduate Texts)

By Noelle Pottier

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While systems at equilibrium are treated in a unified manner through the partition function formalism, the statistical physics of out-of-equilibrium systems covers a large variety of situations that are often without apparent connection. This book proposes a unified perspective on the whole set of systems near equilibrium: it brings out the profound unity of the laws which govern them and gathers together a large number of results usually fragmented in the literature. The reader will find in this book a pedagogical account of the fundamental results: physical origins of irreversibility, fluctuation-dissipation theorem, Boltzmann equation, linear response, Onsager relations, transport phenomena, Langevin and Fokker-Planck equations. The book's comprehensive organization makes it valuable both as a textbook about irreversible phenomena and as a reference book for researchers.

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"Its strength no doubt lies in showing how a large variety of subjects close to experimental interest are connected to a basis of fundamental statistical physics ... an excellent book that is likely to keep its value when fashion changes." --*Henk Hilhorst, Université Paris-Sud*

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About the Author

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2006-present: Full professor (classe exceptionnelle), University Paris Diderot.

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