

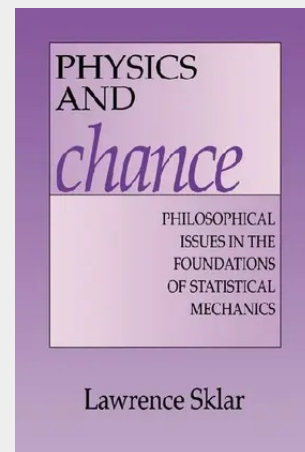
Sklar

Physics and Chance

Philosophical Issues in the Foundations of Statistical Mechanics

Statistical mechanics is one of the crucial fundamental theories of physics, and in his new book Lawrence Sklar, one of the pre-eminent philosophers of physics, offers a comprehensive, non-technical introduction to that theory and to attempts to understand its foundational elements. Among the topics treated in detail are: probability and statistical explanation, the basic issues in both equilibrium and non-equilibrium statistical mechanics, the role of cosmology, the reduction of thermodynamics to statistical mechanics, and the alleged foundation of the very notion of time asymmetry in the entropic asymmetry of systems in time. The book emphasises the interaction of scientific and philosophical modes of reasoning, and in this way will interest all philosophers of science as well as those in physics and chemistry concerned with philosophical questions. The book could also be read by an informed general reader interested in the foundations of modern science.

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66,10 €

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Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780521558815

Medium: Buch

ISBN: 978-0-521-55881-5

Verlag: Cambridge University Press

Erscheinungstermin: 08.10.2004

Sprache(n): Englisch

Auflage: Erscheinungsjahr 2004

Produktform: Kartoniert

Gewicht: 735 g

Seiten: 453

Format (B x H): 152 x 229 mm

