



Scaling Limits in Statistical Mechanics and Microstructures in Continuum Mechanics (Theoretical and Mathematical Physics)

By Errico Presutti

Springer, 2009. Hardcover. Book Condition: New. Collective behavior in systems with many components, blow-ups with emergence of microstructures are proofs of the double, continuum and atomistic, nature of macroscopic systems, an issue which has always intrigued scientists and philosophers. Modern technologies have made the question more actual and concrete with recent, remarkable progresses also from a mathematical point of view. The book focuses on the links connecting statistical and continuum mechanics and, starting from elementary introductions to both theories, it leads to actual research themes. Mathematical techniques and methods from probability, calculus of variations and PDE are discussed at length.

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