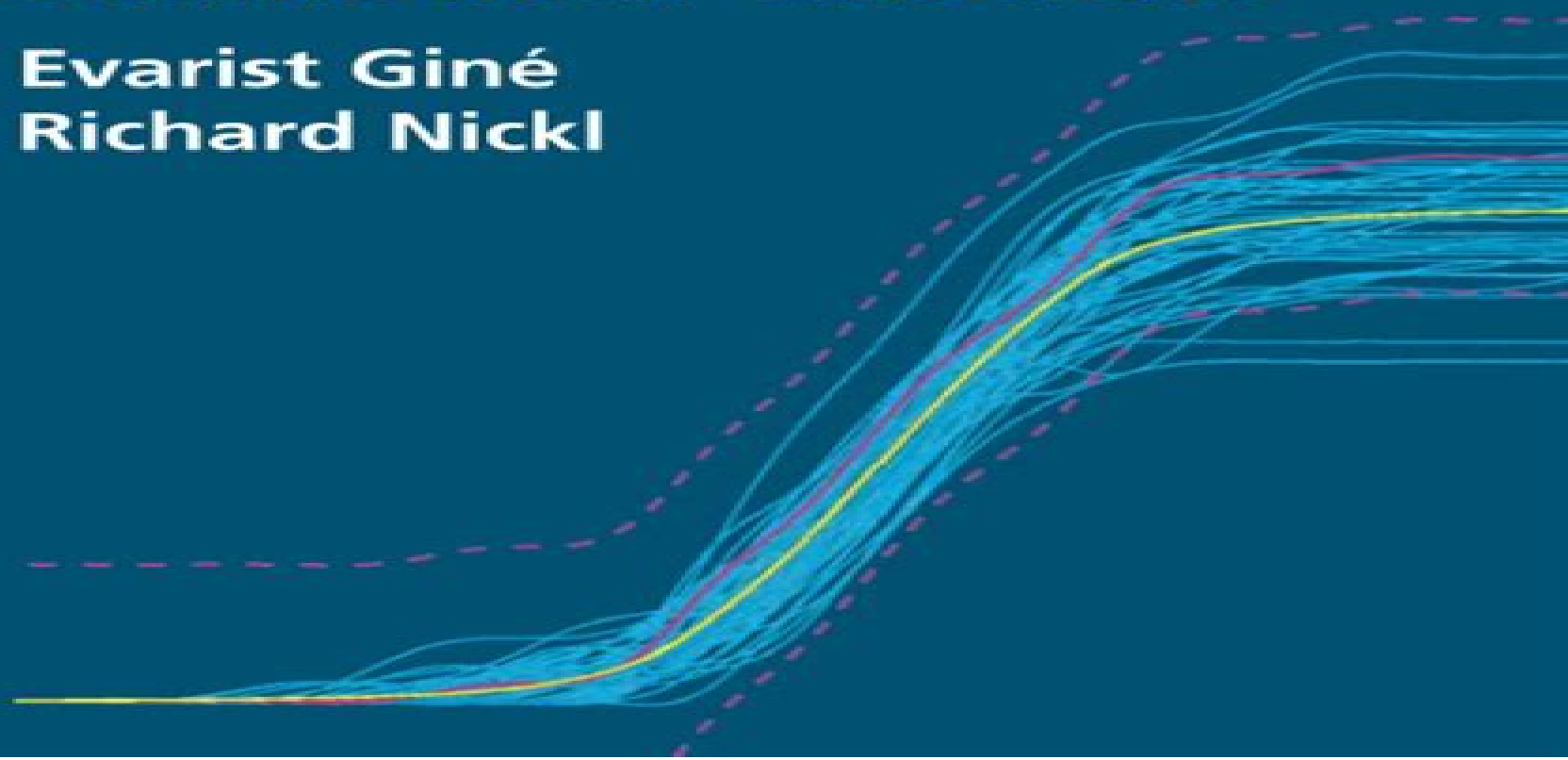


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However the style of presentation in these books is quite different

Foundations of Classical and Quantum Statistical Mechanics R. Jancel, 2013-10-22 Foundations of Classical and Quantum Statistical Mechanics details the theoretical foundation that supports the concepts in classical and quantum statistical mechanics. The title discusses the various problems set by the theoretical justification of statistical mechanics methods. The text first covers the ergodic theory in classical statistical mechanics and then proceeds to tackling quantum mechanical ensembles. Next the selection discusses the ergodic theorem in quantum statistical mechanics and probability quantum ergodic theorems. The selection also details H theorems and kinetic equations in classical and quantum statistical mechanics. The book will be of great interest to students, researchers and practitioners of physics, chemistry and engineering.

Foundations of Statistical Mechanics W.T. Grandy Jr., 2012-12-06 In a certain sense this book has been twenty five years in the writing since I first struggled with the foundations of the subject as a graduate student. It has taken that long to develop a deep appreciation of what Gibbs was attempting to convey to us near the end of his life and to understand fully the same ideas as resurrected by E. T. Jaynes much later. Many classes of students were destined to help me sharpen these thoughts before I finally felt confident that for me at least the foundations of the subject had been clarified sufficiently. More than anything this work strives to address the following questions: What is statistical mechanics? Why is this approach so extraordinarily effective in describing bulk matter in terms of its constituents? The response given here is in the form of a very definite point of view: the principle of maximum entropy (PME). There have been earlier attempts to approach the subject in this way to be sure reflected in the books by Tribus, Thermostat ics and Thermodynamics (Van Nostrand 1961), Baierlein Atoms and Information Theory (Freeman 1971) and Hobson Concepts in Statistical Mechanics (Gordon and Breach 1971).

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