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Professor Raj Kumar Pathria is a theoretical physicist and an Urdu poet. He is known for his work on superfluidity in liquid helium, Lorentz transformation of thermodynamic quantities, a rigorous evaluation of lattice sums, and finite-size effects in phase transitions. Pathria obtained his BSc Honours degree in 1953 and MSc Honours degree in 1954 from Panjab University, Hoshiarpur, and earned ...

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wide array of disciplines, such as physics, chemistry, and engineering.

Statistical mechanics is the theory underlying condensed matter physics. This book outlines the theory in a simple and progressive way, at a level suitable for undergraduates. New to this edition are three chapters on phase transitions, which is now included in undergraduate courses. There are plenty of problems at the end of each chapter, and brief model answers are provided for odd-numbered problems.

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Statistical physics is a core component of most undergraduate (and some post-graduate) physics degree courses. It is primarily concerned with the behavior of matter in bulk—from boiling water to the superconductivity of metals. Ultimately, it seeks to uncover the laws governing random processes, such as the snow on your TV screen. This essential new textbook guides the reader quickly and critically through a statistical view of the physical world, including a wide range of physical applications to illustrate the methodology. It moves from basic examples to more advanced topics, such as broken symmetry and the Bose-Einstein equation. To accompany the text, the author, a renowned expert in the field, has written a Solutions Manual/Instructor's Guide, available free of charge to lecturers who adopt this book for their courses. Introduction to Statistical Physics will appeal to students and researchers in physics, applied mathematics and statistics.

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