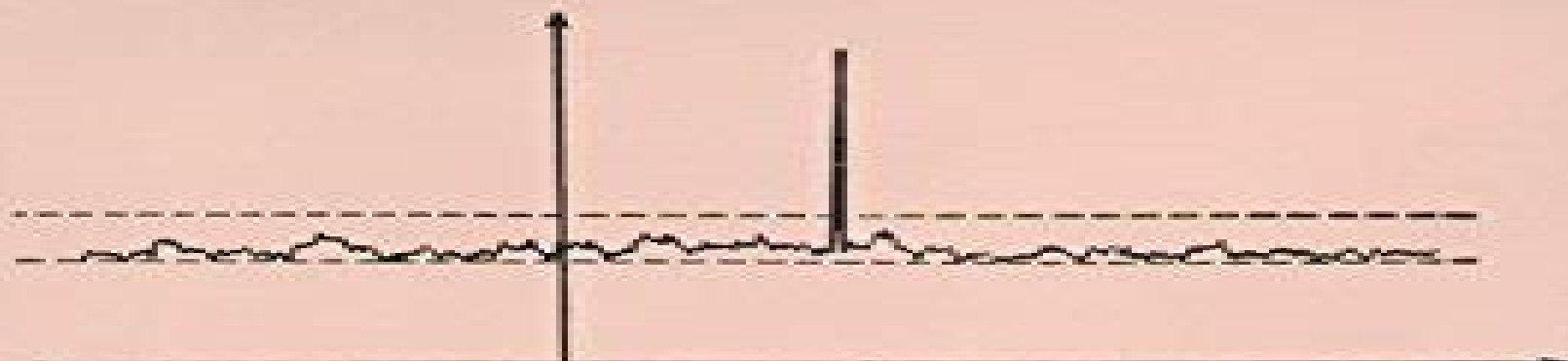




STATISTICAL MECHANICS

KERSON HUANG

SECOND EDITION

Kerson Huang Statistical Mechanics Solution Manual

Camilla Rothe



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Introduction to Statistical Physics, Second Edition Kerson Huang, 2009-09-21 Written by a world renowned theoretical physicist Introduction to Statistical Physics Second Edition clarifies the properties of matter collectively in terms of the physical laws governing atomic motion This second edition expands upon the original to include many additional exercises and more pedagogically oriented discussions that fully explain the concepts and applications The book first covers the classical ensembles of statistical mechanics and stochastic processes including Brownian motion probability theory and the Fokker Planck and Langevin equations To illustrate the use of statistical methods beyond the theory of matter the author discusses entropy in information theory Brownian motion in the stock market and the Monte Carlo method in computer simulations The next several chapters emphasize the difference between quantum mechanics and classical mechanics the quantum phase Applications covered include Fermi statistics and semiconductors and Bose statistics and Bose Einstein condensation The book concludes with advanced topics focusing on the Ginsburg Landau theory of the order parameter and the special kind of quantum order found in superfluidity and superconductivity Assuming some background knowledge of classical and quantum physics this textbook thoroughly familiarizes advanced undergraduate students with the different aspects of statistical physics This updated edition continues to provide the tools needed to understand and work with random processes

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Books in Print Supplement ,1979 *Solutions Manual for Statistical Mechanics* Huang, 1987-09-01 Books in Print ,1981

Scientific and Technical Books and Serials in Print ,1989 Technical Books in Print ,1974 **The Publishers Weekly** ,1964 Quantum Field Theory Kerson Huang, 2010-04-26 A new updated and enhanced edition of the classic work

which was welcomed for its general approach and self sustaining organization of the chapters Written by a highly respected textbook writer and researcher this book has a more general scope and adopts a more practical approach than other books It includes applications of condensed matter physics first developing traditional concepts including Feynman graphs before moving on to such key topics as functional integrals statistical mechanics and Wilson s renormalization group The author takes care to explain the connection between the latter and conventional perturbative renormalization Due to the rapid advance and increase in importance of low dimensional systems this second edition fills a gap in the market with its added discussions of low dimensional systems including one dimensional conductors All the chapters have been revised while more clarifying explanations and problems have been added A FREE SOLUTIONS MANUAL is available for lecturers from www.wiley-vch.de/textbooks

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