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Instructor's Guide
for

Thermal Physics

SECOND EDITION

by
Charles Kittel
and
Herbert Kroemer

1017



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Thermal Physics Solutions Manual

**American Association of Physics
Teachers**



Thermal Physics Solutions Manual:

Instructor's solutions manual to accompany an introduction to thermal physics Daniel V. Schoeder, 2001

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Kroemer, 1980-01-15 CONGRATULATIONS TO HERBERT KROEMER 2000 NOBEL LAUREATE FOR PHYSICS For upper division courses in thermodynamics or statistical mechanics, Kittel and Kroemer offers a modern approach to thermal physics that is based on the idea that all physical systems can be described in terms of their discrete quantum states rather than drawing on 19th century classical mechanics concepts. *Thermal Physics* Ralph Baierlein, 1999-07-15 Clear and reader friendly, this is an ideal textbook for students seeking an introduction to thermal physics. Written by an experienced teacher and extensively class tested, *Thermal Physics* provides a comprehensive grounding in thermodynamics, statistical mechanics, and kinetic theory. A key feature of this text is its readily accessible introductory chapters which begin with a review of fundamental ideas. Entropy, conceived microscopically and statistically, and the Second Law of Thermodynamics are introduced early in the book. Throughout, topics are built on a conceptual foundation of four linked elements: entropy and the Second Law, the canonical probability distribution, the partition function, and the chemical potential. As well as providing a solid preparation in the basics of the subject, the text goes on to explain exciting recent developments such as Bose-Einstein condensation and critical phenomena. Key equations are highlighted throughout, and each chapter contains a summary of essential ideas and an extensive set of problems of varying degrees of difficulty. A free solutions manual is available for instructors. ISBN 0521 658608 *Thermal Physics* is suitable for both undergraduates and graduates in physics and astronomy.

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