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Concepts in Thermal Physics: Blundell, Stephen J ...

understanding the concepts of thermal physics is vital for humanity's future; the impending energy crisis and the potential consequences of climate change mandate creative, scientific, and technological innovations at the highest levels. This means that thermal physics is a field that some of tomorrow's best minds need to master today. SJB & KMB

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At $r = r_1$, we can write $J = -\kappa \partial T / \partial r = -\kappa (T_1 - T_2) / (r_2 - r_1) = -\kappa \ln(r_2 / r_1) / \ln(r_2 / r_1)$ Hence the heat flow per unit length, which is $2\pi r_1 J$ is given by $2\pi \kappa (T_1 - T_2) / \ln(r_2 / r_1)$ $10.9 \partial T / \partial r = \partial r$ and so as before we can write, R where T_r is the temperature at the surface of the lagging.

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Professor Stephen J. Blundell Department of Physics Clarendon Laboratory University of Oxford Parks Road Oxford OX1 3PU Stephen Blundell did his undergraduate degree in Physics and Theoretical Physics at Peterhouse, Cambridge and his Ph. D. in the Cavendish Laboratory at Cambridge. He moved to the Clarendon Laboratory at Oxford to take up an SERC research fellowship, followed by a Junior ...

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However, Kittel was still essential in getting at the root of the physics behind the concepts. Kittel is a much deeper book when asking "Why?". Blundell and Blundell is a wonderful text, but is not the best stand-alone text. I highly recommend it as a supplemental text.

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Concepts in Thermal Physics (Second edition) Paperback – Illustrated, 30 Nov. 2009. by Stephen J. Blundell (Author), Katherine M. Blundell (Contributor) 4.5 out of 5 stars 62 ratings. See all formats and editions.

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Concepts in Thermal Physics . Stephen Blundell did his undergraduate degree in Physics and Theoretical Physics at Peterhouse, Cambridge and his Ph. D. in the Cavendish Laboratory at Cambridge.

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Concepts in Thermal Physics by Stephen J. Blundell and Katherine M. Blundell fulfills that need admirably, and their textbook will be very useful for an undergraduate course in thermodynamics and statistical mechanics."--Physics Today "About this title" may belong to another edition of this title.

This text provides a modern introduction to the main principles of thermal physics, thermodynamics and statistical mechanics. The key concepts are presented and new ideas are illustrated with worked examples as well as description of the historical background to their discovery.

This text provides a modern introduction to the main principles of thermal physics, thermodynamics and statistical mechanics. The key concepts are presented and new ideas are illustrated with worked examples as well as description of the historical background to their discovery.

An understanding of thermal physics is crucial to much of modern physics, chemistry and engineering. This book provides a modern introduction to the main principles that are foundational to thermal physics, thermodynamics and statistical mechanics. The key concepts are carefully presented in a clear way, and new ideas are illustrated with copious worked examples as well as a description of the historical background to their discovery. Applications are presented to subjects as diverse as stellar astrophysics, information and communication theory, condensed matter physics and climate change. Each chapter concludes with detailed exercises. The second edition of this popular textbook maintains the structure and lively style of the first edition but extends its coverage of thermodynamics and statistical mechanics to include several new topics, including osmosis, diffusion problems, Bayes theorem, radiative transfer, the Ising model and Monte Carlo methods. New examples and exercises have been added throughout.

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This modern introduction to thermal physics contains a step-by-step presentation of the key concepts. The text is copiously illustrated and each chapter contains several worked examples.

Thermodynamics has benefited from nearly 100 years of parallel development with quantum mechanics. As a result, thermal physics has been considerably enriched in concepts, technique and purpose, and now has a dominant role in the developments of physics, chemistry and biology. This unique book explores the meaning and application of these developments using quantum theory as the starting point. The book links thermal physics and quantum mechanics in a natural way. Concepts are combined with interesting examples, and entire chapters are dedicated to applying the principles to familiar, practical and unusual situations. Together with end-of-chapter exercises, this book gives advanced undergraduate and graduate students a modern perception and appreciation for this remarkable subject.

Exercise problems in each chapter.

This is a textbook for the standard undergraduate-level course in thermal physics. The book explores applications to engineering, chemistry, biology, geology, atmospheric science, astrophysics, cosmology, and everyday life.

Striving to explore the subject in as simple a manner as possible, this book helps readers understand the elusive concept of entropy. Innovative aspects of the book include the construction of statistical entropy from desired properties, the derivation of the entropy of classical systems from purely classical assumptions, and a statistical thermodynamics approach to the ideal Fermi and ideal Bose gases. Derivations are worked through step-by-step and important applications are highlighted in over 20 worked examples. Around 50 end-of-chapter exercises test readers' understanding. The book also features a glossary giving definitions for all essential terms, a time line showing important developments, and list of books for further study. It is an ideal supplement to undergraduate courses in physics, engineering, chemistry and mathematics.

Superconductivity is one of the most exciting areas of research in physics today. Outlining the history of its discovery, and the race to understand its many mysterious phenomena, this Very Short Introduction also explores the deep implications of the theory, and its potential to revolutionize the physics and technology of the future.

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