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At  $r = r_1$ , we can write  $J = \frac{1}{4\pi r_1^2} \frac{dQ}{dt} = \frac{1}{4\pi r_1^2} \frac{d}{dt} (4\pi r_1^2 \rho \Delta T) = \rho \Delta T \frac{dr_1}{dt}$  Hence the heat flow per unit length, which is  $2\pi r_1 J$  is given by  $2\pi r_1 \rho \Delta T \frac{dr_1}{dt} = \frac{d}{dt} (2\pi r_1^2 \rho \Delta T)$   $10.9 \rho T_{const} = \frac{d}{dt} (2\pi r_1^2 \rho \Delta T)$  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 ?????????? . 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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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.

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.

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

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.

This book is based on many years of teaching statistical and thermal physics. It assumes no previous knowledge of thermodynamics, kinetic theory, or probability---the only prerequisites are an elementary knowledge of classical and modern physics, and of multivariable calculus. The first half of the book introduces the subject inductively but rigorously, proceeding from the concrete and specific to the abstract and general. In clear physical language the book explains the key concepts, such as temperature, heat, entropy, free energy, chemical potential, and distributions, both classical and quantum. The second half of the book applies these concepts to a wide variety of phenomena, including perfect gases, heat engines, and transport processes. Each chapter contains fully worked examples and real-world problems drawn from physics, astronomy, biology, chemistry, electronics, and mechanical engineering.

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.

