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10.1 A trial solution of $T(x, t) = T(0, 0)e^{i(kx - \omega t)}$ in the one-dimensional thermal diffusion equation $\frac{\partial T}{\partial t} = \kappa \frac{\partial^2 T}{\partial x^2}$ (where C is a heat capacity per unit volume) yields $-i\omega = Ck^2$ ($-k^2$). In this problem ω must be real so we write $\omega C(1 + i) = \pm(1 + i) = \pm 2\kappa\delta^2$ where $\delta = \sqrt{2\kappa/\omega C}$ is the skin depth.

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10.1 A trial solution of $T(x, t) = T(0, 0)e^{i(kx - \omega t)}$ in the one-dimensional thermal diffusion equation $\frac{\partial T}{\partial t} = \kappa \frac{\partial^2 T}{\partial x^2}$

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∂x^2 (where C is a heat capacity per unit volume) yields $-i\omega = C\kappa(-k^2)$. In this problem ω must be real so we write $k = \pm(1 + i) \sqrt{\omega C / 2\kappa} = \pm 1 + i \delta$ where $\delta = \sqrt{2\kappa / \omega C}$ is the skin depth.

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transport coefficients and linear response theory Draws on findings from contemporary research Solutions manual (available only to instructors)

This fully updated and expanded new edition continues to provide the most readable, concise, and easy-to-follow introduction to thermal physics. While maintaining the style of the original work, the book now covers statistical mechanics and incorporates worked examples systematically throughout the text. It also includes more problems and essential updates, such as discussions on

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superconductivity, magnetism, Bose-Einstein condensation, and climate change. Anyone needing to acquire an intuitive understanding of thermodynamics from first principles will find this third edition indispensable. Andrew Rex is professor of physics at the University of Puget Sound in Tacoma, Washington. He is author of several textbooks and the popular science book, *Commonly Asked Questions in Physics*.

The original work by M.D. Sturge has been updated and expanded to include new chapters covering non-equilibrium and biological

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systems. This second edition re-organizes the material in a more natural manner into four parts that continues to assume no previous knowledge of thermodynamics. The four divisions of the material introduce the subject inductively and rigorously, beginning with key concepts of equilibrium thermodynamics such as heat, temperature and entropy. The second division focuses on the fundamentals of modern thermodynamics: free energy, chemical potential and the partition function. The second half of the book is then designed with the flexibility to meet the needs of both the instructor and the

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students, with a third section focused on the different types of gases: ideal, Fermi-Dirac, Bose-Einstein, Black Body Radiation and the Photon gases. In the fourth and final division of the book, modern thermostatistical applications are addressed: semiconductors, phase transitions, transport processes, and finally the new chapters on non-equilibrium and biological systems. Key Features: Provides the most readable, thorough introduction to statistical physics and thermodynamics, with magnetic, atomic, and electrical systems addressed alongside development of fundamental topics at a non-

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This text presents statistical mechanics and thermodynamics as a theoretically integrated field of study. It stresses deep coverage of fundamentals, providing a natural foundation

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