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At  $r = r_1$ , we can write  $J = -k \frac{dT}{dr} (T_1 - T_2) = -k \frac{dT}{dr} r_1 \ln(r_2 / r_1)$ . Hence the heat flow per unit length, which is  $2\pi r_1 J$  is given by  $2\pi k (T_1 - T_2) \ln(r_2 / r_1)$ .  $10.9 \pi k T_{const} = 2\pi r_1 J$  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  
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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,

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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.

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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

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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.

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