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$= -\frac{2\pi r_1 k (T_1 - T_2)}{\ln(r_2/r_1)}$ Hence the heat flow per unit length,

which is $2\pi r_1 k (T_1 - T_2) \ln(r_2/r_1)$

10.9 $T_{const} = r$ and so as before we can write R where T_r is the temperature at the surface of the lagging.

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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.

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An understanding of thermal physics is crucial to much of modern physics, chemistry and engineering. This book provides a modern

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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.

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