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conduction problem, when the temperatures are known at two positions in a finite body or at one position in a semi-infinite body.

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[31,66,68,77,100,136,137,149] The Fourier law of conduction is  $q = -k\nabla T$  (1.2) where  $q$  is the heat flux vector,  $T(x)$  is the temperature field, and  $k(T)$  is the coefficient of thermal conductivity. 1.2.1 Governing equation  $\partial T / \partial t = \alpha \nabla \cdot (k \cdot \nabla T) + g$  (1.3) 1.2.2 Fins Fin effectiveness  $\eta_f$ : This is the ratio of the fin heat transfer rate

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