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Boundary Value Problems of Heat Conduction (Dover Books on Engineering)

M. Necati Ozisik

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Intended for first-year graduate courses in heat transfer, this volume includes topics relevant to chemical and nuclear engineering and aerospace engineering. The systematic and comprehensive treatment employs modern mathematical methods of solving problems in heat conduction and diffusion.
Starting with precise coverage of heat flux as a vector, derivation of the conduction equations, integral-transform technique, and coordinate transformations, the text advances to problem characteristics peculiar to Cartesian, cylindrical, and spherical coordinates; application of Duhamel's method; solution of heat-conduction problems; and the integral method of solution of nonlinear conduction problems. Additional topics include useful transformations in the solution of nonlinear boundary value problems of heat conduction; numerical techniques such as the finite differences and the Monte Carlo method; and anisotropic solids in relation to resistivity and conductivity tensors. Illustrative examples and problems amplify the text, which is supplemented by helpful appendixes.

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