

Table of contents

- **1 Introduction**
- **2 Steady-State Conduction--One Dimension**
- **3 Steady-State Conduction--Multiple Dimensions**
- **4 Unsteady-State Conduction**
- **5 Principles of Convection**
- **6 Empirical and Practical Relations for Forced-Convection Heat Transfer**
- **7 Natural Convection Systems**
- **8 Radiation Heat Transfer**
- **9 Condensation and Boiling Heat Transfer**
- **10 Heat Exchangers**
- **11 Mass Transfer**
- **Appendix A Tables**
- **Appendix B Exact Solutions of Laminar-Boundary-Layer Equations**
- **Appendix C Analytical Relations for the Heisler Charts**
- **Appendix D Use of Microsoft Excel for Solution of Heat-Transfer Problems**