

Advanced Heat Transfer

The book provides a valuable source of technical content for the prediction and analysis of advanced heat transfer problems, including conduction, convection, radiation, phase change, and chemically reactive modes of heat transfer. With more than 20 new sections, case studies, and examples, the Third Edition broadens the scope of thermal engineering applications, including but not limited to biomedical, micro- and nanotechnology, and machine learning. The book features a chapter devoted to each mode of multiphase heat transfer. **FEATURES** - Covers the analysis and design of advanced thermal engineering systems - Presents solution methods that can be applied to complex systems such as semi-analytical, machine learning, and numerical methods - Includes a chapter devoted to each mode of multiphase heat transfer, including boiling, condensation, solidification, and melting - Explains processes and governing equations of multiphase flows with droplets and particles - Applies entropy and the second law of thermodynamics for the design and optimization of thermal engineering systems Advanced Heat Transfer, Third Edition, offers a comprehensive source for single and multiphase systems of heat transfer for senior undergraduate and graduate students taking courses in advanced heat transfer, multiphase fluid mechanics, and advanced thermodynamics. A solutions manual is provided to adopting instructors.

Advanced Heat Transfer provides a single source of technical content for the prediction, solution, and analysis of advanced heat transfer problems, including conduction, convection, radiation and phase change, and chemically reactive modes of heat transfer, with over 20 new sections, case studies, examples, and problems.



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