



Fundamentals of Heat and Mass Transfer, 8th Edition

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DESCRIPTION

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Fundamentals of Heat and Mass Transfer 8th Edition has been the gold standard of heat transfer pedagogy for many decades, with a commitment to continuous improvement by four authors' with more than 150 years of combined experience in heat transfer education, research and practice. Applying the rigorous and systematic problem-solving methodology that this text pioneered an abundance of examples and problems reveal the richness and beauty of the discipline. This edition makes heat and mass transfer more approachable by giving additional emphasis to fundamental concepts, while highlighting the relevance of two of today's most critical issues: energy and the environment.

ABOUT THE AUTHOR

Adrienne Lavine is Professor and past Department Chair (2006 - 2011) in the Mechanical and Aerospace Engineering Department at the University of California, Los Angeles. She began her academic career there in 1984 as an Assistant Professor after obtaining her Ph.D. in Mechanical Engineering from the University of California, Berkeley.

Ted Bergman received his Ph.D. from Purdue University, and has been a faculty member at the University of Kansas (2012 - present), the University of Connecticut (1996 - 2012), and The University of Texas at Austin (1985 - 1996). He directed the Thermal Transport Processes Program at the U.S. National Science Foundation from 2008 to 2010. Early in his career, Dr. Bergman designed the cooling systems of large electric power generation stations.

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- An improved treatment of thermodynamic concepts, with clarification of the various forms of energy and their relation to heat transfer.
- New material on micro- and nanoscale heat transfer and thermal boundary resistance.
- A more rigorous presentation of the concept of mixed convection.
- Ninety new and 225 revised end-of-chapter problems, with an emphasis on problems amenable to analytical solutions.

Resources

For Students:

- The enhanced eText edition is available that includes embedded solutions to selected problems.

- Interactive Heat Transfer Software – available for free download, this software provides modeling and computational capabilities to solve heat transfer problems
- Supplemental Material Handouts

For Instructors:

- Solutions Manual
- Image Gallery
- Lecture Slides
- Interactive Heat Transfer Software
- Supplemental Material Handouts
- Homework Correlation Guide

FEATURES

- The presentation is built around four central learning objectives:
- The reader should internalize the meaning of the terminology and physical principles associated with heat transfer
- The reader should be able to delineate pertinent transport phenomena for any process or system involving heat transfer
- The reader should be able to use requisite inputs for computing heat transfer rates and/or material temperatures
- The reader should be able to develop representative models of real processes and systems and draw conclusions concerning process/system design or performance from the attendant analysis
- Teaches students the rigorous and systematic problem-solving methodology developed and honed by the authors
- A wealth of example problems show how to apply the material across various engineering disciplines and fields
- Identifies problems that are uniquely suited for solving with a computational software tool, both to increase efficiency and to decrease errors

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