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About the Author

Massoud Kaviany is a Professor of Mechanical Engineering and Applied Physics at the University of Michigan. He is a Fellow of the American Society of Mechanical Engineers (ASME) and the winner of ASME's Heat Transfer Memorial Award (2006) and the prestigious James Harry Potter Gold Medal (2010). He has won the Teaching Incentive Award (1999 and 2000) and the Education Excellence Award (2003) from the College of Engineering at Michigan. He is the author of four books: *Principles of Heat Transfer in Porous Media, Second Edition* (1999), *Principles of Convective Heat Transfer, Second Edition* (2001), *Principles of Heat Transfer* (2001) and *Heat Transfer Physics* (Cambridge University Press, 2008).

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This textbook teaches students the principles, materials, and applications they need to understand and analyze heat transfer problems they will encounter in practice. The emphasis on modern practical problems (including thermoelectric cooling), in the numerous examples, sets this work apart from other available works. The approach is to discuss heat transfer problems (in search of innovative and optimal solutions) and the engineering analysis, to motivate fundamental principles and analytical problem solving methods. By introducing heat flux tracking, the students develop intuition about the central role of heat transfer in engineered systems. The energy conversion mechanisms (to and from thermal energy) are integrated into the treatment, thus allowing for realistic design of thermal systems. Note that microscale heat carriers are also covered. Those familiar with the first version of this book from another publisher will notice that this volume is shorter and the generic problem solving engine was replaced by MATLAB software. The rich materials removed from the print version are available on the web site, www.cambridge.org/kaviany. A complete solutions manual for the numerous exercises is available to qualified instructors.

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