



Heat and Mass Transfer: Fundamentals and Applications (Mechanical Engineering)

By Yunus Cengel, Afshin Ghajar

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Heat and Mass Transfer: Fundamentals and Applications (Mechanical Engineering) By Yunus Cengel, Afshin Ghajar Bibliography

- Sales Rank: #366893 in Books
- Brand: imusti
- Published on: 2014-04-04
- Original language: English
- Number of items: 1
- Dimensions: 10.30" h x 1.50" w x 8.20" l, 4.15 pounds
- Binding: Hardcover
- 992 pages

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Editorial Review

About the Author

Afshin J. Ghajar is Regents Professor and Director of Graduate Studies in the School of Mechanical and Aerospace Engineering at Oklahoma State University, Stillwater, Oklahoma, USA and a Honorary Professor of Xi'an Jiaotong University, Xi'an, China. He received his B.S., M.S., and Ph.D. all in Mechanical Engineering from Oklahoma State University. His expertise is in experimental and computational heat transfer and fluid mechanics. Dr. Ghajar has made significant contributions to the field of thermal sciences through his experimental, empirical, and numerical works in heat transfer and stratification in sensible heat storage systems, heat transfer to non-Newtonian fluids, heat transfer in the transition region, and non-boiling heat transfer in two-phase flow. His current research is in two-phase flow heat transfer, thermal management of mini and micro systems, and mixed convective heat transfer and pressure drop in the transition region.

Dr. Ghajar has been a Summer Research Fellow at Wright Patterson AFB (Dayton, Ohio) and Dow Chemical Company (Freeport, Texas). He and his co-workers have published over 150 reviewed research papers. He has delivered numerous keynote and invited lectures at major technical conferences and institutions. He has received several outstanding teaching, research, advising, and service awards from College of Engineering at Oklahoma State University. Dr. Ghajar is a Fellow of the American Society of Mechanical Engineers (ASME), Heat Transfer Series Editor for CRC Press/Taylor & Francis and Editor-in-Chief of Heat Transfer Engineering, an international journal aimed at practicing engineers and specialists in heat transfer published by Taylor and Francis.

Yunus A. Cengel is Professor Emeritus of Mechanical Engineering at the University of Nevada, Reno. He received his B.S. in Mechanical Engineering from Istanbul Technical University and his M.S. and Ph.D. in Mechanical Engineering from North Carolina State University. His areas of interest are renewable energy, energy efficiency, energy policies, heat transfer enhancement, and engineering education. He served as the Director of the Industrial Assessment Center (IAC) at the University of Nevada, Reno, from 1996 to 2000. He has led teams of engineering students to numerous manufacturing facilities in Northern Nevada and California to perform industrial assessments, and has prepared energy conservation, waste minimization, and productivity enhancement reports for them. He has also served as an advisor for various government organizations and corporations.

Dr. Cengel is also the author or coauthor of the widely adopted textbooks Fundamentals of Thermal-Fluid Sciences, Heat and Mass Transfer: Fundamentals and Applications, and Introduction to Thermodynamics, all published by McGraw-Hill Education. Some of his textbooks have been translated into Chinese, Japanese, Korean, Thai, Spanish, Portuguese, Turkish, Italian, Greek, and French.

Dr. Cengel is the recipient of several outstanding teacher awards, and he has received the ASEE Meriam/Wiley Distinguished Author Award for excellence in authorship in 1992 and again in 2000. Dr. Cengel is a registered Professional Engineer in the State of Nevada, and is a member of the American Society of Mechanical Engineers (ASME) and the American Society for Engineering Education (ASEE).

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