



Thermal Sciences: An Introduction to Thermodynamics, Fluid Mechanics, and Heat Transfer (with CD ROM)

By Merle C. Potter, Elaine P. Scott

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This text combines thermodynamics and fluid mechanics, with a short introduction to heat transfer. Taking a well-balanced approach, the authors clearly demonstrate the connections among the three interrelated subjects. Because of the consistent terminology and continuity, students will find it easier to learn the three subjects. The book provides the appropriate amount of material for non-mechanical engineering students. Addressing various levels of difficulty, the authors provide a wealth of examples and exercises, including synthesis problems and design problems.

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Editorial Review

Review

The authors deserve commendations for the very clear pacing, structure and organization of the material and the multitude of examples and chapter problems. Students love to see the examples and they will enjoy having so many to use as guides. The authors have a nice balance of leading the students through the problem while still making them think.

About the Author

Dr. Merle C. Potter holds a B.S. in Mechanical Engineering and an M.S. in Engineering Mechanics from Michigan Technological University, as well as an M.S. in Aerospace Engineering and a Ph.D. in Engineering Mechanics from the University of Michigan. Dr. Potter taught for 40 years, including 33 of years at Michigan State University where he taught thermodynamics, fluid mechanics and numerous other courses. Dr. Potter has authored and co-authored 35 textbooks, help books, and engineering exam review books. He has specialized in fluid flow stability and energy research. He has received numerous awards, including the Ford Faculty Scholarship, the Teacher-Scholar Award, the ASME Centennial Award, the MSU Mechanical Engineering Faculty Award, and the James Harry Potter Thermodynamics Gold Medal. Dr. Potter is a member of ASEE, ASME, and the American Academy of Mechanics.

Elaine P. Scott received her Ph.D. from Michigan State University and is a Professor at Virginia Tech. Her teaching responsibilities include Introduction to Thermal Fluids and Fundamentals of Thermodynamics. Dr. Scott's research projects include thermal waves in heterogeneous materials, development of noninvasive probe to measure blood perfusion, IPEM Synthesis Thermal Thrust, and microwave related research.

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