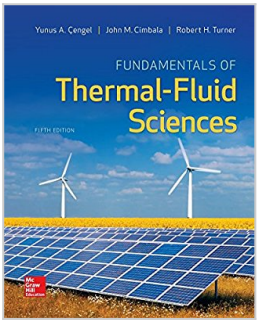


# Fundamentals of Thermal-Fluid Sciences

*By Yunus Cengel, Robert Turner, John Cimbala*



**Fundamentals of Thermal-Fluid Sciences** By Yunus Cengel, Robert Turner, John Cimbala

The objective of this text is to cover the basic principles of thermodynamics, fluid mechanics, and heat transfer. Diverse real-world engineering examples are presented to give students a feel for how thermal-fluid sciences are applied in engineering practice. By emphasizing the physics and physical arguments, students are able to develop intuitive understanding of thermal-fluid sciences. This edition contains sufficient material to give instructors flexibility and to accommodate their preferences on the right blend of thermodynamics, fluid mechanics, and heat transfer for their students. By careful selection of topics, an instructor can spend one-third, one-half, or two-thirds of the course on thermodynamics and the rest on selected topics of fluid mechanics and heat transfer.

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## Editorial Review

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**Robert H. Turner** is Professor Emeritus of Mechanical Engineering at the University of Nevada, Reno (UNR). He earned a B.S. and M.S. from the University of California at Berkeley, and his Ph.D. from UCLA, all in mechanical engineering. He worked in industry for 18 years, including nine years at Cal Tech's Jet Propulsion Laboratory (JPL). Dr. Turner then joined the University of Nevada in 1983. His research interests include solar and renewable energy applications, thermal sciences, and energy conservation. He established and was the first director of the Industrial Assessment Center at the University of Nevada. For 20 years Dr. Turner has designed the solar components of many houses. In 1994–95, in a cooperative effort between UNR and Erciyes University in Kayseri, Turkey, he designed and oversaw construction of the fully instrumented Solar Research Laboratory at Erciyes University, featuring 130 square meters of site-integrated solar collectors. His interest in applications has led Dr. Turner to maintain an active consulting practice. Dr. Turner is a registered Professional Engineer and is a member of the American Society of Mechanical Engineers (ASME) and the American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE).

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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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