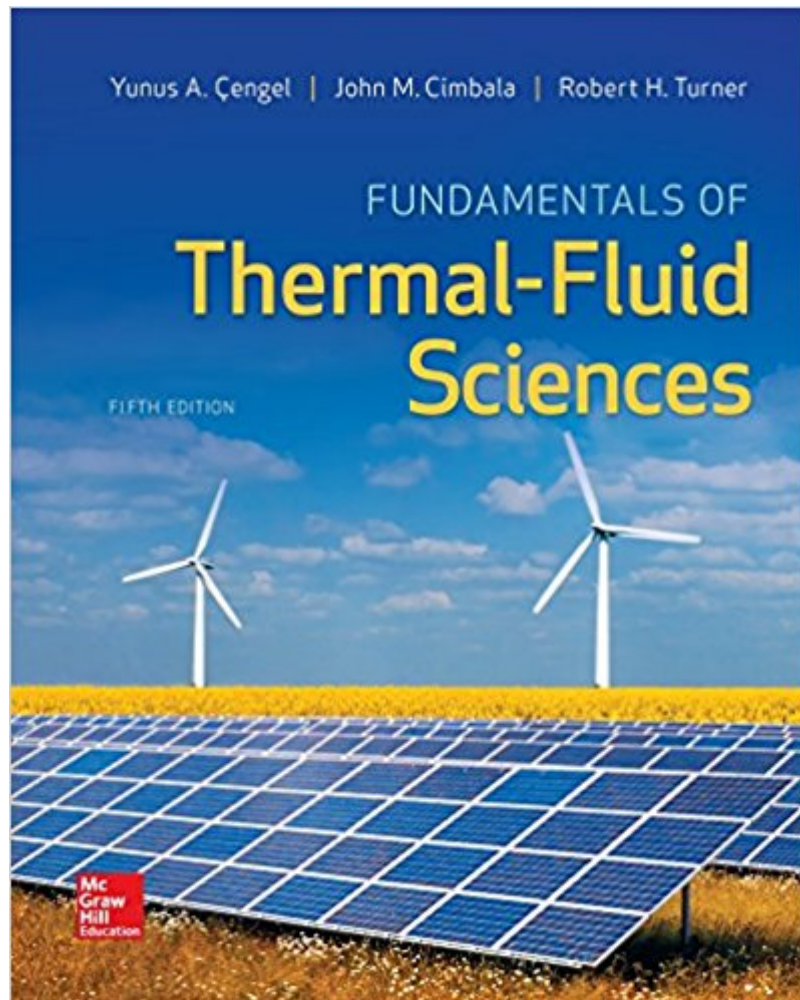




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Fundamentals Of Thermal-Fluid Sciences



Synopsis

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. McGraw-Hill Education's Connect, is also available as an optional, add on item. Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need, when they need it, how they need it, so that class time is more effective. Connect allows the professor to assign homework, quizzes, and tests easily and automatically grades and records the scores of the student's work. Problems are randomized to prevent sharing of answers and may also have a "multi-step solution" which helps move the students' learning along if they experience difficulty.

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Customer Reviews

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 1994â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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For a textbook this is really great. The equations are separated from the text making them easy to read and to find, and the examples are very helpful.

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