



Thermal-Fluid Sciences: An Integrated Approach

By Stephen Turns

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This integrated textbook for an engineering course covering thermodynamics, heat transfer, and fluid mechanics is based on the fundamental conservation principles of mass, energy, and momentum. It features many full color illustrations, and includes chapter learning objectives, overviews, historical vignettes, numerous examples of problem-solving, and a format enhanced by innovative self tests and color coding to highlight significant equations and advanced topics. Integrated tutorials show the student how to use modern software, including the NIST Database on CD, to obtain thermodynamic and transport properties. Thermal-Fluid Sciences with Multimedia Fluid Mechanics CD-ROM (ISBN-13: 9780521682411 | ISBN-10: 052168241X)

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Editorial Review

Review

“The book can easily be adopted as a course resource in undergraduate engineering fluid dynamics courses and even in a self-study approach. Highly recommended.”

Choice

About the Author

Stephen R. Turns has been a Professor of Mechanical Engineering at The Pennsylvania State University since completing his PhD at the University of Wisconsin in 1979. Before completing his PhD Steve spent five years in the Engine Research Department of General Motors Research Laboratories in Warren, Michigan. His active research interests include the study of pollutant formation and control in combustion systems, combustion engines, combustion instrumentation, slurry fuel combustion, energy conversion, and energy policy. He has published numerous refereed journal articles on many of these topics. Steve Turns is a member of the ASME and many other professional organizations and an ASME-ABET Program Evaluator since 1994. Steve is also a dedicated teacher for which he has won numerous awards including the Penn State Teaching and Learning Consortium, Hall of Fame Faculty Award; Penn State's Milton S. Eisenhower Award for Distinguished Teaching; the Premier Teaching Award, Penn State Engineering Society; and the Outstanding Teaching Award, Penn State Engineering Society. Steve's talent as a teacher is also reflected in his best-selling advanced undergraduate textbook *Introduction to Combustion: Concepts and Applications* 2/e. Steve's commitment to students and teaching is reflected in the innovative approach and design of *Thermal-Fluid Sciences: An Integrated Approach* and its companion volume *Thermodynamics*, also published by Cambridge University Press.

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