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[Fundamentals Of Thermal Fluid Sciences](#)

T his text is an abbreviated version of standard thermodynamics, fluid mechanics , and heat transfer texts, covering topics that engineering

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students are most likely to need in their professional lives. The thermodynamics portion of this text is

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The table references are to the textbook by Cengel and Turner, "Fundamentals of Thermal-Fluid Sciences, Second Edition. Also, the following procedure assumes that the temperature is above the triple point temperature, so that only the liquid and vapor phases are involved. If thermodynamic data are available, the same procedure will work for lower temperatures. Values of two independent ...

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He has obtained externally sponsored funding (excluding high-performance computing grants) in excess of \$20 million for projects and program development in mechanical engineering, including the thermal/fluid sciences and nuclear engineering. The estimated commercial value of his supercomputer grants is in excess of \$10 million.

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It is commonly assumed that only 10% of the energy from the produced geothermal fluid can be converted to electricity ().Barbier (2002) suggests

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Dr. Çengel is also the author or coauthor of the widely adopted textbooks Heat and Mass Transfer: Fundamentals and Applications (5th ed., 2015), Fluid Mechanics: Fundamentals and Applications (4th ed., 2018), Fundamentals of Thermal-Fluid Sciences (5th ed., 2017), and Differential Equations for Engineers and Scientists (1st ed., 2013), all published by McGraw-Hill. Some of his textbooks have ...