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the book covers topics from thermodynamics, fluid mechanics, heat transfer, and, more broadly, energy and mass transfer. the book employs the basic concepts of fluid mechanics, but also the more advanced topics, such as turbulence modeling. the book provides a very thorough treatment of thermodynamics, with applications to the three main areas of energy conversion (fuel combustion, power generation, and propulsion), including: combustion, gas turbines, fuel cells, nuclear reactors, and rocket engines. the book also includes a discussion of thermodynamic properties of typical fuel mixtures, e.g., ethanol, diesel, gasoline, kerosene, propane, and propylene. the book includes a number of unsolved exercises. a free supplemental dvd is provided which features an additional 80-100 lecture-demonstrations, as well as several computer-simulated experiments. chapter 1: fundamentals begins with thermodynamics and the conservation laws, the first four laws of thermodynamics. chapter 2 introduces the concepts of entropy and temperature and explains their relationship. chapter 3 explains the concept of energy and the laws of conservation of energy and linear momentum. chapter 4 examines conservation of energy and linear momentum at the molecular level, using the first and second laws of thermodynamics. chapter 5 discusses the concept of entropy and how it is related to the conservation of energy. chapter 6 examines the use of energy to perform work, and the different types of work. in chapter 7, the concept of heat is introduced and the energy transfer relationships between the different energy forms are discussed. chapter 8 covers the concept of work done by a fluid in performing mechanical work, and the energy loss in the process. chapter 9 explains the concept of temperature and the temperatures of gases and liquids. chapter 10 discusses the concept of heat transfer, and the different types of heat transfer devices. chapter 11 discusses the concept of viscosity and the different types of fluids. chapter 12 discusses the concept of viscosity and the different types of heat transfer devices.

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