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Dr Turns teaches a wide variety of courses in the thermal sciences and has received several awards for teaching excellence at Penn State. He is an active combustion researcher, Publishing Widely, and is an active member of The Combustion Institute, the American Society of Mechanical Engineers, and the Society of Automotive Engineers.

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INTRODUCTION TO COMBUSTION (EGEE 430/ME 430) Our objective in this class is to introduce the basic concepts of combustion science and engineering by using the essential tools of stoichiometry, thermodynamics, kinetics and transport phenomena. We shall place special emphasis on the 'visualization' of the relevant equations.

"Introduction to Combustion is the leading combustion textbook for undergraduate and graduate students because of its easy-to-understand analyses of basic combustion concepts and its introduction of a wide variety of practical applications that motivate or relate to the various theoretical concepts. This is a text that is useful for junior/senior undergraduates or graduate students in mechanical engineering and practicing engineers. The third edition updates and adds topics related to protection of the environment, climate change, and energy use. Additionally, a new chapter is added on fuels due to the continued focus on conservation and energy independence"--Page 4 of cover

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The focus of Thermodynamics: Concepts and Applications is on traditional thermodynamics topics, but structurally the book introduces the thermal-fluid sciences. Chapter 2 includes essentially all material related to thermodynamic properties clearly showing the hierarchy of thermodynamic state relationships. Element conservation is considered in Chapter 3 as a way of expressing conservation of mass. Constant-pressure and volume combustion are considered in Chapter 5 - Energy Conservation. Chemical and phase equilibria are treated as a consequence of the 2nd law in Chapter 6. 2nd law topics are introduced hierarchically in one chapter, important structure for a beginner. The book is designed for the instructor to select topics and combine them with material from other chapters seamlessly. Pedagogical devices include: learning objectives, chapter overviews and summaries, historical perspectives, and numerous examples, questions and problems and lavish illustrations. Students are encouraged to use the National Institute of Science and Technology (NIST) online properties database.

With Wiley's Enhanced E-Text, you get all the benefits of a downloadable, reflowable eBook with added resources to make your study time more effective. Fundamentals of Heat and Mass Transfer 8th Edition has been the gold standard of heat transfer pedagogy for many decades, with a commitment to continuous improvement by four authors' with more than 150 years of combined experience in heat transfer education, research and practice. Applying the rigorous and systematic problem-solving methodology that this text pioneered an abundance of examples and problems reveal the richness and beauty of the discipline. This edition makes heat and mass transfer more approachable by giving additional emphasis to fundamental concepts, while highlighting the relevance of two of today's most critical issues: energy and the environment.

An Introduction to Coal Technology provides an overview explaining what coal is, how it came into being, what its principal physical and chemical properties are, and how it is handled or processed for particular end uses. This book is divided into two parts; the first of which focuses on coal science and the second on technology. This volume is organized into 15 chapters and begins with a brief account of the origin, formation, and distribution of coal, along with its composition, classification, and most important properties. It then turns to beneficiation and handling; combustion; and various partial or complete conversion technologies. The final chapter deals with some aspects of pollution and pollution control. This book provides fairly detailed discussions on coal chemistry, including the molecular structure of coal. The challenges and limitations of coal technology are also considered. This book is intended for scientists and engineers who are active in other fields, but who might want to bring coal within the orbit of their interests, and to advanced students of chemical and mineral engineering who are contemplating careers in coal-related endeavors.

This comprehensive text covers principles and applications with an emphasis on the theoretical modeling of combustion. Addresses chemical thermodynamics and kinetics, conservation equations for multi-component reacting flows, deflagration and detonation waves, premixed laminar flames, spray combustion of fuel droplets, ignition, and related topics. Many examples are included to demonstrate the application of theory. Emphasizes the use of digital computers for solutions.

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