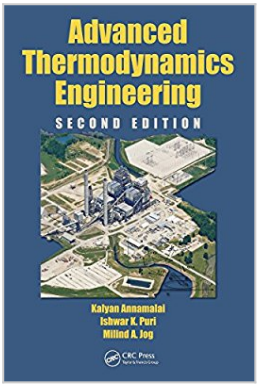

Advanced Thermodynamics Engineering, Second Edition (Computational Mechanics and Applied Analysis)

By Kalyan Annamalai, Ishwar K. Puri, Milind A. Jog

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Advanced Thermodynamics Engineering, Second Edition is designed for readers who need to understand and apply the engineering physics of thermodynamic concepts. It employs a self-teaching format that reinforces presentation of critical concepts, mathematical relationships, and equations with concrete physical examples and explanations of applications—to help readers apply principles to their own real-world problems.

Less Mathematical/Theoretical Derivations—More Focus on Practical Application

Because both students and professionals must grasp theory almost immediately in this ever-changing electronic era, this book—now completely in decimal outline format—uses a phenomenological approach to problems, making advanced concepts easier to understand. After a decade teaching advanced thermodynamics, the authors infuse their own style and tailor content based on their observations as professional engineers, as well as feedback from their students. Condensing more esoteric material to focus on practical uses for this continuously evolving area of science, this book is filled with revised problems and extensive tables on thermodynamic properties and other useful information.

The authors include an abundance of examples, figures, and illustrations to clarify presented ideas, and additional material and software tools are available for download. The result is a powerful, practical instructional tool that gives readers a strong conceptual foundation on which to build a solid, functional understanding of thermodynamics engineering.

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Editorial Review

Review
. . . written in such a way that in particular engineers will find it extremely useful. . . The layout is successful and the beautiful illustrations as well as the many written problems will make its useful as a textbook for undergraduate and graduate courses.
-Panayiotis Vlamos, President, V-Publications, Athens, Greece

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Dr. Kalyan Annamalai received his BS from Anna University (Engineering College at Guindy), Chennai, MS from the Indian Inst. of Science, Bangalore, and Ph.D. from the Georgia Institute of Technology, Atlanta, USA. He worked at Brown University and later at AVCO-Everett Research Laboratory, Revere, Massachusetts, USA. He joined Texas A&M in 1981 as an Assistant Professor and is currently Paul Pepper Professor of Mechanical Engineering. He is also a Senior TEES Fellow of College of Engineering, Texas A&M. He is currently involved research projects dealing with coal and biomass combustion, gasification, NOx and Hg reductions using new reburn fuels and laser based sensor developments for NO_x and Hg. He is a member of combustion institute and a fellow of American Society of Mechanical Engineers. He serves on the editorial boards of International Journal of Green Energy and Journal of Combustion, and serves as Associate Editor (Coal and Biomass) for the Transactions of ASME Journal of Engineering for Gas Turbines and Power.

Dr. Ishwar K. Puri is Professor and Department Head of Engineering Science and Mechanics at Virginia Tech. He is a Fellow of the American Society of Mechanical Engineers and of the American Association for the Advancement of Science. He serves as Secretary of the American Academy of Mechanics. He has edited a book on the environmental implications of combustion processes, and coauthored textbooks on advanced thermodynamics Engineering and on combustion science and engineering. He is the author of nearly 300 archival publications and conference presentations, and book chapters in the field of transport phenomena, fluid mechanics, combustion, and mathematical biology. He got his Ph.D. (1987), and M.S. (1984) degrees in Engineering Science (Applied Mechanics) from the University of California, San Diego after obtaining a B.Sc. (1982) in Mechanical Engineering from the University of Delhi (Delhi College of Engineering). He served as an Assistant Research Engineer at the University of California, San Diego from 1987-90. Thereafter, he was appointed as Assistant Professor in the Mechanical Engineering Department at the University of Illinois at Chicago (UIC) in 1990. He served at UIC as Associate Dean for Research and Graduate Studies (2000-01) and as Executive Associate Dean of Engineering (2001-04).

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Award. He was recognized as "Master Engineering Educator" by UC College of Engineering. He has published over 150 archival and journal papers in the field of sprays and atomization, two-phase flow, interfacial phenomena, and computational fluid dynamics and heat transfer. He is a member of the American Society of Mechanical Engineers and the Institute for Liquid Atomization and Spray Systems. He is a Regional Editor (North America) for the Journal of Enhanced Heat Transfer and has served as a Guest Editor for the ASME Journal of Heat Transfer.

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