

Fundamentals Thermal Fluid Sciences Student Resource

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this text provides a clear understanding of the fundamental principles of thermal and fluid sciences in a concise manner in a rigorous yet easy to follow language and presentation elucidation of the principles is further reinforced by examples and practice problems with detailed solutions firmly grounded in the fundamentals the book maximizes readers capacity to take on new problems and challenges in the field of fluid and thermal sciences with confidence and conviction standing also as a ready reference and review of the essential theories and their applications in fluid and thermal sciences the book is applicable for undergraduate mechanical and chemical engineering students students in engineering technology programs as well as practicing engineers preparing for the engineering license exams fe and pe in usa and abroad explains the concepts and theory with a practical approach that readers can easily absorb provides the just the right amount of theoretical and mathematical background needed making it less intimidating for the reader covers fluid and thermal sciences in a straight forward yet comprehensive manner facilitating a good understanding of the subject matter includes a wide spectrum and variety of problems along with numerous illustrative solved examples and many practice problems with solutions

the second edition of fundamentals of thermal fluid sciences presents up to date balanced coverage of the three major subject areas comprising introductory thermal fluid

engineering thermodynamics fluid mechanics and heat transfer by emphasizing the physics and underlying physical phenomena involved the text encourages creative think development of a deeper understanding of the subject matter and is read with enthusiasm and interest by both students and professors

fluid mechanics fundamentals and applications communicates directly with tomorrow s engineers in a simple yet precise manner the text covers the basic principles and equations of fluid mechanics in the context of numerous and diverse real world engineering examples the text helps students develop an intuitive understanding of fluid mechanics by emphasizing the physics using figures numerous photographs and visual aids to reinforce the physics fluid mechanics is by its very nature a highly visual subject and students learn more readily by visual stimulation this text distinguishes itself from others by the way the material is presented in a progressive order from simple to more difficult building each chapter upon foundations laid down in previous chapters in this way even the traditionally challenging aspects of fluid mechanics can be learned effectively

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