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LUCAS MAXIMILIAN

Guide to Reference Books John Wiley & Sons

This highly informative and carefully presented book offers a comprehensive overview of the fundamentals of thermal engineering. The book focuses both on the fundamentals and more complex topics such as the basics of thermodynamics, Zeroth Law of thermodynamics, first law of thermodynamics, application of first law of thermodynamics, second law of thermodynamics, entropy, availability and irreversibility, properties of pure substance, vapor power cycles, introduction to working of IC engines, air-standard cycles, gas turbines and jet

propulsion, thermodynamic property relations and combustion. The author has included end-of-chapter problems and worked examples to augment learning and self-testing. This book is a useful reference to undergraduate students in the area of mechanical engineering.

Electrical, Civil, Mechanical, and Mining Engineering S.

Chand Publishing

Strength of Materials, 3rd Edition is ideal for students pursuing degrees in civil and mechanical engineering, as well as computer science, electronics, and instrumentation. Topics include combined stresses, centroid and the moment of inertia, shear forces and bending moments in beams, stresses in beams, the deflection of beams, torsion of circular members, springs, strain energy, the theory of elastic failure, buckling of columns,

pressure vessels, and the analysis of framed structures. The general arrangement of the new edition of the book remains unchanged however the text has been thoroughly revised. Also, several new solved problems in the chapters have been added. It continues to provide students with a sound understanding of the fundamental concepts of civil structures, machine elements, and other components. A large number of New Solved Examples (about 50) have been added in the chapters such as 1, 2, 5, 6, 7, 10, and 13. Model Multiple Choice Questions (about 250) have been added at the end to test the understanding of students and to provide an approach for competitive examinations. A new chapter (Chapter 14) on Mechanical Testing of Materials has been introduced. The entire text has been thoroughly revised and updated to eliminate the possible errors left out in the previous editions of the book. The Third Edition is augmented by more than 100 pages and the scope of the book has been further increased.

Fundamentals of Gas Dynamics John Wiley & Sons

This book focuses both on the basics and more complex topics in mechanical measurements such as measurement errors & statistical analysis of data, regression analysis, heat flux, measurement of pressure, and radiation properties of surfaces. End of chapter problems, solved illustrations, and exercise problems are presented throughout the book to augment learning. It is a useful reference for students in both undergraduate and postgraduate programs.

Mechanical Measurements Ramesh Publishing House

Essentials of Radiation Heat Transfer focuses only on the essential topics required to gain an understanding of radiation

heat transfer to enable the reader to master more challenging problems. The strength of the book lies in its elaborate presentation of the powerful radiosity-irradiation method and shows how this technique can be used to solve a variety of problems of radiation in enclosures made of one to any number of surfaces in both transparent and participating media. The book also introduces atmospheric radiation in which engineers can contribute to the technology of remote sensing and atmospheric sciences in general, by a better understanding of radiation. The author has included pedagogical features such as end-of-chapter exercises and worked examples with varying degrees of difficulty to augment learning and self-testing. The book has been written in an easy-to-follow conversational style to enhance reader engagement and learning outcomes. This book will be a useful guide for upper undergraduate and graduate students in the areas of mechanical engineering, aerospace engineering, atmospheric sciences, and energy sciences.

The Electric Journal Springer Nature

This textbook on Fundamentals of Gas Dynamics will help students with a background in mechanical and/or aerospace engineering and practicing engineers working in the areas of aerospace propulsion and gas dynamics by providing a rigorous examination of most practical engineering problems. The book focuses both on the basics and more complex topics such as quasi one dimensional flows, oblique shock waves, Prandtl Meyer flow, flow of steam through nozzles, etc. End of chapter problems, solved illustrations and exercise problems are presented throughout the book to augment learning. ^

Theory of Structures Elsevier

Given the risk of earthquakes in many countries, knowing how structural dynamics can be applied to earthquake engineering of structures, both in theory and practice, is a vital aspect of improving the safety of buildings and structures. It can also reduce the number of deaths and injuries and the amount of property damage. The book begins by discussing free vibration of single-degree-of-freedom (SDOF) systems, both damped and undamped, and forced vibration (harmonic force) of SDOF systems. Response to periodic dynamic loadings and impulse loads are also discussed, as are two degrees of freedom linear system response methods and free vibration of multiple degrees of freedom. Further chapters cover time history response by natural mode superposition, numerical solution methods for natural frequencies and mode shapes and differential quadrature, transformation and Finite Element methods for vibration problems. Other topics such as earthquake ground motion, response spectra and earthquake analysis of linear systems are discussed. Structural dynamics of earthquake engineering: theory and application using Mathematica and Matlab provides civil and structural engineers and students with an understanding of the dynamic response of structures to earthquakes and the common analysis techniques employed to evaluate these responses. Worked examples in Mathematica and Matlab are given. Explains the dynamic response of structures to earthquakes including periodic dynamic loadings and impulse loads Examines common analysis techniques such as natural mode superposition, the finite element method and numerical solutions Investigates this important topic in terms of both theory and practise with the inclusion of practical exercise and diagrams

A Practical Journal of Motive Power, Rolling Stock and Appliances Elements of Mechanical Engineering Advances in Mechanical Engineering Elements of Mechanical Engineering Fundamentals of Engineering Thermodynamics A presentation of the theory behind the Rayleigh-Ritz (R-R) method, as well as a discussion of the choice of admissible functions and the use of penalty methods, including recent developments such as using negative inertia and bi-penalty terms. While presenting the mathematical basis of the R-R method, the authors also give simple explanations and analogies to make it easier to understand. Examples include calculation of natural frequencies and critical loads of structures and structural components, such as beams, plates, shells and solids. MATLAB codes for some common problems are also supplied.

Mechanical Engineering CRC Press

"History of the American society of mechanical engineers. Preliminary report of the committee on Society history," issued from time to time, beginning with v. 30, Feb. 1908.

Year Book Springer Nature

This more-of-physics, less-of-math, insightful and comprehensive book simplifies computational fluid dynamics for readers with little knowledge or experience in heat transfer, fluid dynamics or numerical methods. The novelty of this book lies in the simplification of the level of mathematics in CFD by presenting physical law (instead of the traditional differential equations) and discrete (independent of continuous) math-based algebraic formulations. Another distinguishing feature of this book is that it effectively links theory with computer program (code). This is done with pictorial as well as detailed explanations of

implementation of the numerical methodology. It also includes pedagogical aspects such as end-of-chapter problems and carefully designed examples to augment learning in CFD code-development, application and analysis. This book is a valuable resource for students in the fields of mechanical, chemical or aeronautical engineering.

Introduction to Computational Fluid Dynamics Springer Nature
 Elements of Mechanical Engineering
 Advances in Mechanical Engineering
 Elements of Mechanical Engineering
 Fundamentals of Engineering Thermodynamics
 CRC Press

Introduction to Computational Fluid Dynamics John Wiley & Sons
 This highly informative and carefully presented book offers a comprehensive overview of the fundamentals of thermal engineering. The book focuses both on the fundamentals and more complex topics such as the basics of thermodynamics, Zeroth Law of thermodynamics, first law of thermodynamics, application of first law of thermodynamics, second law of thermodynamics, entropy, availability and irreversibility, properties of pure substance, vapor power cycles, introduction to working of IC engines, air-standard cycles, gas turbines and jet propulsion, thermodynamic property relations and combustion. The author has included end-of-chapter problems and worked examples to augment learning and self-testing. This book is a useful reference to undergraduate students in the area of mechanical engineering.

Thermal Engineering Volume 1 Springer Nature

This book deals with all the concepts in first level Thermodynamics course. Numerous examples are given with the objective of illustrating how the concepts are used for the

thermodynamic analysis of devices. Please note: T&F does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka

Railway and Locomotive Engineering CRC Press

This textbook is intended for post-graduate students in mechanical and allied engineering disciplines. It will also be helpful to scientists and engineers working in the areas of combustion to recapitulate the fundamental and generally applied aspects of combustion. This textbook comprehensively covers the fundamental aspects of combustion. It includes physical descriptions of premixed and non-premixed flames. It provides a detailed analysis of the basic ideas and design characteristics of burners for gaseous, liquid and solid fuels. A chapter on alternative renewable fuels has also been included to bring out the need, characteristics and usage of alternative fuels. Review questions have been provided at the end of each chapter which will help the students to evaluate their understanding of the important concepts covered in that chapter. Several standard text books have been cited in the chapters and are listed towards the end, as suggested reading, to enable the readers to refer them when required. The textbook will be useful for students in mechanical, aerospace and related fields of engineering. It will also be a good resource for professionals and researchers working in the areas of combustion technology.

Guide to the Study and Use of Reference Books Springer Nature

The first edition of this book was co-published by Ane Books India, and CRC Press in 2008. This second edition is an enlarged version of the web course developed by the author at IIT Madras,

and also a modified and augmented version of the earlier book. Major additions/modifications presented are in the treatment of errors in measurement, temperature measurement, measurement of thermo-physical properties, and data manipulation. Many new worked examples have been introduced in this new and updated second edition.

Structural Dynamics of Earthquake Engineering Springer Nature Modelling of Engineering Materials presents the background that is necessary to understand the mathematical models that govern the mechanical response of engineering materials. The book provides the basics of continuum mechanics and helps the reader to use them to understand the development of nonlinear material response of solids and fluids used in engineering applications. A brief review of simplistic and linear models used to characterize the mechanical response of materials is presented. This is followed by a description of models that characterize the nonlinear response of solids and fluids from first principles. Emphasis is given to popular models that characterize the nonlinear response of materials. The book also presents case studies of materials, where a comprehensive discussion of material characterization, experimental techniques and constitutive model development, is presented. Common principles that govern material response of both solids and fluids within a unified framework are outlined. Mechanical response in the presence of non-mechanical fields such as thermal and electrical fields applied to special materials such as shape memory materials and piezoelectric materials is also explained within the same framework.

Thermal Engineering Volume 2 Springer Nature

A concise book for candidates appearing for Mechanical Engineering Exams.

Proceedings John Wiley & Sons

I feel elevated in presenting the New edition of this standard treatise. The favourable reception, which the previous edition and reprints of this book have enjoyed, is a matter of great satisfaction for me. I wish to express my sincere thanks to numerous professors and students for their valuable suggestions and recommending the patronise this standard treatise in the future also.

Mechanical Measurements John Wiley & Sons

The first edition of this book was co-published by Ane Books India, and CRC Press in 2008. This second edition is an enlarged version of the web course developed by the author at IIT Madras, and also a modified and augmented version of the earlier book. Major additions/modifications presented are in the treatment of errors in measurement, temperature measurement, measurement of thermo-physical properties, and data manipulation. Many new worked examples have been introduced in this new and updated second edition.

A Reference-book of Rules, Tables, Data, and Formulae, for the Use of Engineers, Mechanics, and Students John Wiley & Sons

This book is primarily for a first one-semester course on CFD; in mechanical, chemical, and aeronautical engineering. Almost all the existing books on CFD assume knowledge of mathematics in general and differential calculus as well as numerical methods in particular; thus, limiting the readership mostly to the postgraduate curriculum. In this book, an attempt is made to simplify the subject even for readers who have little or no

experience in CFD, and without prior knowledge of fluid-dynamics, heattransfer and numerical-methods. The major emphasis is on simplification of the mathematics involved by presenting physical-law (instead of the traditional differential equations) based algebraic-formulations, discussions, and solution-methodology. The physical law based simplified CFD approach (proposed in this book for the first time) keeps the level of mathematics to school education, and also allows the reader to intuitively get started with the computer-programming. Another distinguishing feature of the present book is to effectively link the theory with the computer-program (code). This is done with more pictorial as well as detailed explanation of the numerical methodology. Furthermore, the present book is structured for a module-by-module code-development of the two-dimensional numerical formulation; the codes are given for 2D heat conduction, advection and convection. The present subject involves learning to develop and effectively use a product - a CFD software. The details for the CFD development presented here is the main part of a CFD software. Furthermore, CFD application and analysis are presented by carefully designed example as well as exercise problems; not only limited to fluid dynamics but also includes heat transfer. The reader is trained for a job as CFD developer as well as CFD application engineer; and can also lead

to start-ups on the development of "apps" (customized CFD software) for various engineering applications. "Atul has championed the finite volume method which is now the industry standard. He knows the conventional method of discretizing differential equations but has never been satisfied with it. As a result, he has developed a principle that physical laws that characterize the differential equations should be reflected at every stage of discretization and every stage of approximation. This new CFD book is comprehensive and has a stamp of originality of the author. It will bring students closer to the subject and enable them to contribute to it." —Dr. K. Muralidhar, IIT Kanpur, INDIA

[A Practical Treatise for the Use of Engineers and Students of Engineering Springer Nature](#)

This book is intended to help the reader understand impact phenomena as a focused application of diverse topics such as rigid body dynamics, structural dynamics, contact and continuum mechanics, shock and vibration, wave propagation and material modelling. It emphasizes the need for a proper assessment of sophisticated experimental/computational tools promoted widely in contemporary design. A unique feature of the book is its presentation of several examples and exercises to aid further understanding of the physics and mathematics of impact process from first principles, in a way that is simple to follow.

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