

Rogers And Mayhew Engineering Thermodynamics Ebook

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Dennis Henry Bacon Michael J. Moran Howard A. Silver

engineering thermodynamics is a comprehensive text which presents the broad spectrum of the principles of thermodynamics while encapsulating the theoretical and practical aspects of the field the book provides clear explanation of basic principles for better understanding of the subject additionally the book includes numerous laws theorems formulae tables charts and equations for learning apart from extensive references for more in depth information the revised edition of the book has been completely updated covering the complete syllabi of most universities and is aimed to be useful to both the students and faculty

engineering thermodynamics is a science that deals with energy and its conversion this subject is a core subject in almost all branches of engineering and technology at under graduate level the text has been presented in a lucid and self instructive method so that an average student can understand the subject by even self study figures speak themselves they are very important tools they stimulate the curiosity of a student and help to solve the problem comfortably effective use of a graphics has been made and the text contains large number of figures probably more than any other thermodynamic book a large number of illustrative examples are given along with suitable diagram si units have been used throughout the book chapter 1 gives fundamental concepts of the subject temperature and its measurement have been presented in chapter 2 properties of pure substances are given in chapter 3 chapter 4 deals with heat work and first law of thermodynamics for closed systems chapter 5 deals with first law of thermodynamics for open systems concepts of second of thermodynamics entropy and second law analysis are the subject matter of chapter 6 7 and 8 respectively some applications of thermodynamics are presented in chapter 9 gas power cycles chapter 10 vapor and combined power cycles and chapter 11 refrigeration systems chapter 12 deals with thermodynamic relations and equations of state gas mixtures and air conditioning are discussed in chapter 13 chapter 14 deals with reactive systems chemical phase equilibrium are given in chapter 15 compressible fluid flow is given in chapter 16 an elementary knowledge of heat transfer is given in chapter 17 tables graphs and charts of various properties of substances are given in appendix a 1 to a 45 at the end of each chapter review questions and numerical problems along with answers are given

this book an engineering thermodynamics presents the principles and applications of the subject and covers the entire syllabus prescribed by various universities for undergraduate students needles to emphasise this new book has been designed as a self learning capsule with this aim the material has been organised in a logical order with lots of illustrative examples to enable students to thoroughly master the subject

utilizes live math to provide interactive access to an electronic calculation tool called mathcad which enables the user to manipulate starting parameters in order view the changed results in graph form

engineering thermodynamics has been designed for students of all branches of engineering specially undergraduate students of mechanical engineering the book will also serve as reference manual for practising engineers the book has been written in simple language and systematically develops the concepts and principles essential for understanding the subject the text has been supplemented with solved numerical problems illustrations and question banks the present book has been divided in five parts thermodynamic laws and relations properties of gases and vapours thermodynamics cycles heat transfer and heat exchangers annexures

this comprehensive textbook covers the principles of thermodynamics as they apply to engineering it includes topics such as the first and second laws of thermodynamics thermodynamic properties of substances and thermodynamic cycles the book is a valuable resource for students and professionals in the field of engineering this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

this textbook is written for junior level mechanical engineering students taking their first two courses in thermodynamics basic balances of mass energy availability and entropy are stressed the concept of availability is introduced early and integrated throughout the book by discarding the classical approach and placing more emphasis on second law analysis a better understanding of the second law is obtained orderly problem solving techniques systems closed and open property diagrams and units are emphasized

excerpt from a text book engineering thermodynamics this textbook of engineering thermodynamics has been prepared to meet the requirements of technical schools desiring a briefer treatment of the subject than that contained in the original engineering thermodynamics by charles e lucke of which this book is an abridgment since rankine s time the science of thermodynamics has been highly developed and has become of great importance in the formulation of modern physical chemistry and its correlated branches in engineering thermodynamics per se is not concerned with any physical substance it is rather a theory of energy in relation to matter engineering thermodynamics while making use of those principles of pure thermodynamics which may help to solve its problems must rely on a great mass of facts or relations that have not attained the dignity of thermodynamic laws its field includes a portion of that of pure thermodynamics but it extends far beyond the established provinces of that subject and reaches to the interpretation of all pertinent principles and facts for purely useful purposes one of the most promising applications of engineering thermodynamics is to be found in the establishment of limits of possible performance of heat apparatus and machines these limits show what might be expected of a steam engine gas engine or refrigerating machine when its mechanism is quite perfect thus they become standards of reference and a measure of improvements yet possible these methods and practices are also applicable to the analysis of the operating performance of complete plants to discover the amount of energy being lost how the total amount is divided between the different elements of the apparatus which of the losses can be prevented and how and finally which are unavoidable in this book the treatment has followed that of the larger work based upon the application of the laws of pure thermodynamics modified by conditions of practice to guide computation on thermal problems which deal with physical substances under actual conditions of operation the subject is divided into three general parts part i deals with the

conditions surrounding the doing of work without any consideration of heat changes part ii with heat gains and losses by substances without reference to work involved and part iii transformation of heat into work or work into heat in conjunction with changes in the condition of substances the first part applies to the behavior of fluids in the cylinders of compressors and engines about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks.com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

this book emphasises the fundamentals of thermodynamics required at the first year undergraduate engineering levels worked out examples supplement the theory objective type exercises further consolidate understanding

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