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In the intervening 20 years since
the 3rd edition of this textbook

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many advances have been made in the design of turbines and greater understanding of the processes involved have been gained. This 4th edition brings the book up to date.

Industrial Gas Turbines:

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Performance and Operability explains important aspects of gas turbine performance such as performance deterioration, service life and engine emissions. Traditionally, gas turbine performance has been taught from

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a design perspective with insufficient attention paid to the operational issues of a specific site. Operators are not always sufficiently familiar with engine performance issues to resolve operational problems and optimise

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performance. Industrial Gas Turbines: Performance and Operability discusses the key factors determining the performance of compressors, turbines, combustion and engine controls. An accompanying engine

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simulator CD illustrates gas turbine performance from the perspective of the operator, building on the concepts discussed in the text. The simulator is effectively a virtual engine and can be subjected to operating conditions that would be

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dangerous and damaging to an engine in real-life conditions. It also deals with issues of engine deterioration, emissions and turbine life. The combined use of text and simulators is designed to allow the reader to better understand and

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optimise gas turbine operation.
Discusses the key factors in
determining the performance of
compressors, turbines, combustion
and engine controls Explains
important aspects of gas and
turbine performance such as service

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life and engine emissions

Accompanied by CD illustrating gas turbine performance, building on the concepts discussed in the text New Scientist magazine was launched in 1956 "for all those men and women who are interested in

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scientific discovery, and in its industrial, commercial and social consequences". The brand's mission is no different today - for its consumers, New Scientist reports, explores and interprets the results of human endeavour set in the

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context of society and culture.

This is a new book on food process engineering which treats the principles of processing in a scientifically rigorous yet concise manner, and which can be used as a lead in to more specialized texts

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for higher study. It is equally relevant to those in the food industry who desire a greater understanding of the principles of the food processes with which they work. This text is written from a quantitative and mathematical

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perspective and is not simply a descriptive treatment of food processing. The aim is to give readers the confidence to use mathematical and quantitative analyses of food processes and most importantly there are a large

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number of worked examples and problems with solutions. The mathematics necessary to read this book is limited to elementary differential and integral calculus and the simplest kind of differential equation.

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This book is intended for undergraduate students in mechanical engineering. It covers the fundamentals of applied thermodynamics, including heat transfer and environmental control. A collection of more than 50

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carefully tailored problems to promote greater understanding of the subject, supported by relevant property tables and diagrams are included along with a solutions manual.

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Thermodynamics and Energy

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The book includes all the subject matter covered in a typical undergraduate course in engineering thermodynamics. It includes 20 to 25 worked examples for each chapter, carefully

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chosen to expose students to diverse applications of engineering thermodynamics. Each worked example is designed to be representative of a class of physical problems. At the end of each

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chapter, there are an
additional 10 to 15 problems
for which numerical answers
are provided.

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Thermodynamics: Work and
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G. F. C. Rogers [and] Y. R.
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Transport Properties of
Fluids John Wiley & Sons
Foundation of Mechanical
Engineering is solely written
with the view to help B.E. I
year students to master the
difficult concepts. Needless to

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emphasise, this new book has been designed a self learning capsule. With this aim in view, the material has been organised in a logical order and lots of solved problems and line diagrams have been

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incorporated to enable students to thoroughly master of the subject. It is believed that this book, solely for B.E. I year students of all branches of Engineering, will captivate the attention of

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senior students as well as
teachers.

Energy Science: Principles,
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integrates the science behind
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the socioeconomic issues
which surround their use to
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provides a complete set of worked examples within thermodynamics and will prove a useful companion to the main text for both students and lecturers.

References to the solutions

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manual will enable the student to gain confidence with the problems and develop a fuller understanding of this core subject. This solutions manual provides a complete set of worked examples

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with other energy industries.

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Alongwith Answers For An Indepth

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and iterative hand calculation, students can be led to a far wider and deeper study than has been possible previously.

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It seemed appropriate to arrange a
meeting of teachers of thermodynamics
in the United Kingdom, a meeting held
in the pleasant surroundings of

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Emmanuel College, Cambridge, in September, 1984. This volume records the ideas put forward by authors, the discussion generated and an account of the action that discussion has initiated. Emphasis was placed on the Teaching of Thermodynamics to degree-level

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students in their first and second years.

The meeting, a workshop for practitioners in which all were expected to take part, was remarkably well supported. This was notable in the representation of essentially every UK university and polytechnic engaged in

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teaching engineering thermodynamics and has led to a stimulating spread of ideas. By intention, the emphasis for attendance was put on teachers of engineering concerned with thermodynamics, both mechanical and chemical engineering disciplines.

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Attendance from others was encouraged but limited as follows: non-engineering academics, 10%, industrialists, 10%. The record of attendance, which will also provide addresses for direct correspondence, will show the broad cover achieved. I

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am indeed grateful for the attendance of those outside the engineering departments who in many cases brought a refreshing approach to discussions of the 'how' and 'why' of teaching thermodynamics. It was also notable that many of those speaking

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from the polytechnics had a more original approach to the teaching of thermodynamics than those from conventional universities. The Open University however brought their own special experience to bear.

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engineering. It provides a solid understanding of the basic concepts of the laws of thermodynamics as well as their applications with a thorough discussion of phase and chemical reaction equilibria. At the outset the text explains the various

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key terms of thermodynamics with suitable examples and then thoroughly deals with the virial and cubic equations of state by showing the P-V-T (pressure, molar volume and temperature) relation of fluids. It elaborates on the first and second

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laws of thermodynamics and their applications with the help of numerous engineering examples. The text further discusses the concepts of exergy, standard property changes of chemical reactions, thermodynamic property relations and fugacity. The

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book also includes detailed discussions on residual and excess properties of mixtures, various activity coefficient models, local composition models, and group contribution methods. In addition, the text focuses on vapour-liquid and

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other phase equilibrium calculations, and analyzes chemical reaction equilibria and adiabatic reaction temperature for systems with complete and incomplete conversion of reactants. key Features ? Includes a large number of fully worked-out

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examples to help students master the concepts discussed. [?] Provides well-graded problems with answers at the end of each chapter to test and foster students' conceptual understanding of the subject. The total number of solved examples and end-chapter

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exercises in the book are over 600. [?]

Contains chapter summaries that review the major concepts covered.

The book is primarily designed for the undergraduate students of chemical engineering and its related disciplines such as petroleum

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**engineering and polymer
engineering. It can also be useful to
professionals. The Solution Manual
containing the complete worked-out
solutions to chapter-end exercises
and problems is available for
instructors.**

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Carefully designed to teach thermodynamics to engineers, this book focuses on the phenomena of irreversibility and the notion of entropy. It also presents a general theory of exergy, with methods of analyse that allow engineers to

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master problems of current interest in the field of energy management. The authors illustrate practical aspects of the theory by describing specific applications such as combustion chambers, turbines, compressors, heat pumps, fuel cells,

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refrigeration, and more.

**Updated and enhanced with
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thermodynamics. It focuses on practical applications of theory and equips students with sound techniques for solving engineering problems. The treatment of the subject matter emphasizes the phenomena which are associated

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with the various thermodynamic processes. The topics covered are supported by an extensive set of example problems to enhance the student's understanding of the concepts introduced. The end-of-chapter problems serve to aid the

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learning process, and extend the material covered in the text by including problems characteristic of engineering design. The book is designed to serve as a text for undergraduate engineering students for a course in thermodynamics.

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The new edition will continue to be of use to engineers in industry and technological establishments, especially as brief reviews are included on many important aspects of Turbomachinery, giving pointers towards more advanced sources of

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information. For readers looking towards the wider reaches of the subject area, very useful additional reading is referenced in the bibliography. The subject of Turbomachinery is in continual review, and while the basics do not

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change, research can lead to refinements in popular methods, and new data can emerge. This book has applications for professionals and students in many subsets of the mechanical engineering discipline, with carryover into thermal sciences;

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**which include fluid mechanics,
combustion and heat transfer;
dynamics and vibrations, as well as
structural mechanics and materials
engineering. An important, long
overdue new chapter on Wind
Turbines, with a focus on blade**

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**aerodynamics, with useful worked
examples Includes important
material on axial flow compressors
and pumps Example questions and
answers throughout
When the First Edition of this book
was written in 1951, the gas turbine**

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was just becoming established as a powerplant for military aircraft. It took another decade before the gas turbine was introduced to civil aircraft, and this market developed so rapidly that the passenger liner was rendered obsolete. Other

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markets like naval propulsion, pipeline compression and electrical power applications grew steadily. In recent years the gas turbine, in combination with the steam turbine, has played an ever-increasing role in power generation. Despite the rapid

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advances in both output and efficiency, the basic theory of the gas turbine has remained unchanged. The layout of this new edition is broadly similar to the original, but greatly expanded and updated, comprising an outline of the basic

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theory, aerodynamic design of individual components, and the prediction of off-design performance. The addition of a chapter devoted to the mechanical design of gas turbines greatly enhances the scope of the book.

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Descriptions of engine developments and current markets make this book useful to both students and practising engineers.

Thermodynamics and Thermal Engineering

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and Heat Transfer - SI Units

Geothermal Engineering

Work and Heat Transfer

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Data of Refrigerant 134a and a table containing for selected substances, molar enthalpies and molar Gibbs functions of formation, Equilibrium constants of formation, as well as molar heat capacities and absolute

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