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*Our lives and the*

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*functioning of modern societies are intimately intertwined with electricity consumption. We owe our quality of life to electricity. However, the electricity generation*

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*industry is partly responsible for some of the most pressing challenges we currently face, including climate change and the pollution of natural environments,*

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*energy inequality, and  
energy insecurity.*

*Maintaining our standard  
of living while addressing  
these problems is the  
ultimate challenge for the  
future of humanity. The*

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## Thermodynamics 6th Edition

*objective of this book is to equip engineering and science students and professionals to tackle this task. Written by an expert with over 25 years of combined academic and*

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*industrial experience in  
the field, this  
comprehensive textbook  
covers both fossil fuels  
and renewable power  
generation technologies.  
For each topic,*

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*fundamental principles,  
historical backgrounds,  
and state-of-the-art  
technologies are covered.  
Conventional power  
production technologies,  
steam power plants, gas*

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*turbines, and combined  
cycle power plants are  
presented. For steam power  
plants, the historical  
background, thermodynamic  
principles, steam  
generators, combustion*



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*systems, emission  
reduction technologies,  
steam turbines, condensate-  
feedwater systems, and  
cooling systems are  
covered in separate  
chapters. Similarly, the*

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*historical background and  
thermodynamic principles  
of gas turbines, along  
with comprehensive  
discussions on  
compressors, combustors,  
and turbines, are*

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*presented and then followed with combined cycle power plants. The second half of the book deals with renewable energy sources, including solar photovoltaic*

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*systems, solar thermal power plants, wind turbines, ocean energy systems, and geothermal power plants. For each energy source, the available energy and its*

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*variations, historical background, operational principles, basic calculations, current and future technologies, and environmental impacts are presented. Finally, energy*

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*storage systems as  
required technologies to  
address the intermittent  
nature of renewable energy  
sources are covered. While  
the book has been written  
with the needs of*

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*undergraduate and graduate  
college students in mind,  
professionals interested  
in widening their  
understanding of the field  
can also benefit from it.  
Now in a new edition, this*

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*book continues to set the standard for teaching readers how to be effective problem solvers, emphasizing the authors's signature methodologies that have taught over a*



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*half million students worldwide. This new edition provides a student-friendly approach that emphasizes the relevance of thermodynamics principles to some of the*

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*most critical issues of  
today and coming decades,  
including a wealth of  
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*as well as emerging  
technologies.*

*Visualization skills are  
developed and basic  
principles demonstrated  
through a complete set of  
animations that have been*

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*interwoven throughout. This introduction to thermodynamics for engineering students assumes no previous instruction in the subject. The book covers*

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*the first and second laws of thermodynamics with a special emphasis on their implications for engineers. Each topic is illustrated with worked examples and is*

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*presented in a logical order, allowing the student to tackle increasingly complex problems. Problems and selected answers are included. The heart of*

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*engineering thermodynamics is the conversion of heat into work. Increasing demands for more efficient conversion, for example to reduce carbon dioxide emissions, are*

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*leading to the adoption of new thermodynamic cycles. However the principles of these new cycles are very simple and are subject to the standard laws of thermodynamics as*



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*explained in this book.*

*Journal of Thermophysics  
and Heat Transfer*

*January 6-10, 1997, Reno,  
NV.*

*Heat Transfer*

*Borgnakke's Fundamentals*

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*The Emperor of All  
Maladies*

**An assessment of cancer  
addresses both the  
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against the disease and**

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the misperceptions and  
hubris that have  
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to causal inference,  
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mathematization of  
causality is a

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**relatively recent  
development, and has  
become increasingly  
important in data  
science and machine  
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offers a self-contained**

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and concise introduction  
to causal models and how  
to learn them from data.  
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need for causal models  
and discussing some of  
the principles

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underlying causal  
inference, the book  
teaches readers how to  
use causal models: how  
to compute intervention  
distributions, how to  
infer causal models from



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observational and  
interventional data, and  
how causal ideas could  
be exploited for  
classical machine  
learning problems. All  
of these topics are

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discussed first in terms  
of two variables and  
then in the more general  
multivariate case. The  
bivariate case turns out  
to be a particularly  
hard problem for causal

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learning because there are no conditional independences as used by classical methods for solving multivariate cases. The authors consider analyzing

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statistical asymmetries  
between cause and effect  
to be highly  
instructive, and they  
report on their decade  
of intensive research  
into this problem. The

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book is accessible to  
readers with a  
background in machine  
learning or statistics,  
and can be used in  
graduate courses or as a  
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of various engineering  
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the theory along with**

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**applications of laws of  
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while Part II (Chapters  
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flow phenomena. This  
accessible and  
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**Advanced Energy Systems  
Division**

**Achieving the Paris  
Climate Agreement Goals  
35th Aerospace Sciences  
Meeting & Exhibit**

***Compressible Fluid Dynamics (or Gas***

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*Dynamics) has a wide range of applications in Mechanical, Aeronautical and Chemical Engineering. It plays a significant role in the design and development of compressors, turbines, missiles, rockets and aircrafts. This*

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*comprehensive and systematically organized book gives a clear analysis of the fundamental principles of Compressible Fluid Dynamics. It discusses in rich detail such topics as isentropic, Fanno, Rayleigh, simple and generalised one-dimensional*



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*flows. Besides, it covers topics such as conservation laws for compressible flow, normal and oblique shock waves, and measurement in compressible flow. Finally, the book concludes with detailed discussions on propulsive devices. The text is amply*

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*would also be extremely useful for practising engineers.*

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*is possible of the present state-of-the-art.*

*Fundamentals of Classical  
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*Proceedings of the 15th Intersociety  
Energy Conversion Engineering  
Conference, Seattle, Washington,*

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*August 18-22, 1980*

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conditions form one of the  
cornerstones in control theory*

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*and have begun to be applied in process control. In this book, passivity-based developments in all areas of control theory are addressed systematically for the first time. The emphasis is placed on real results that add insight.*



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and tubing design. The book's intent is to be sufficiently detailed on the tubular-oriented application of the principles of solid mechanics while at the same time providing readers with key equations pertinent to design. It addresses

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the fundamentals of tubular design theory, bridging the gap between theory and field operation. Filled with derivations and detailed solutions to well design examples, Elements of Oil and Gas Well Tubular Design provides the well

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designer with sound engineering principles applicable to today's oil and gas wells. Understand engineering mechanics for oil well casing and tubing design with emphasis on derivation, limitations, and application of fundamental

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equations Grasp well tubular design  
from one unified source with  
underlying concepts of stress,  
strain, and material constitution  
Quantify practice with detailed well  
design worked examples amenable  
to quality check with commercial

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Thomas Gilovich offers a wise and readable guide to the fallacy of the obvious in everyday life. When can we trust what we believe—that "teams and players have winning streaks," that "flattery works," or

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that "the more people who agree, the more likely they are to be right"—and when are such beliefs suspect? Thomas Gilovich offers a guide to the fallacy of the obvious in everyday life. Illustrating his points with examples, and supporting

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them with the latest research findings, he documents the cognitive, social, and motivational processes that distort our thoughts, beliefs, judgments and decisions. In a rapidly changing world, the biases and stereotypes that help us

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process an overload of complex information inevitably distort what we would like to believe is reality. Awareness of our propensity to make these systematic errors, Gilovich argues, is the first step to more effective analysis and action.



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renewable energy targets and the measures needed to achieve them. Bringing together the latest research in climate science, renewable energy technology, employment and resource impacts, the book breaks new ground by

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covering all the elements essential to achieving the ambitious climate mitigation targets set out in the Paris Climate Agreement. For example, sectoral implementation pathways, with special emphasis on differences between developed and

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developing countries and regional conditions, provide tools to implement the scenarios globally and domestically. Non-energy greenhouse gas mitigation scenarios define a sustainable pathway for land-use change and

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the agricultural sector. Furthermore, results of the impact of the scenarios on employment and mineral and resource requirements provide vital insight on economic and resource management implications. The book clearly

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demonstrates that the goals of the Paris Agreement are achievable and feasible with current technology and are beneficial in economic and employment terms. It is essential reading for anyone with responsibility for implementing

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renewable energy or climate targets internationally or domestically, including climate policy negotiators, policy-makers at all levels of government, businesses with renewable energy commitments, researchers and the renewable

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Classical and Statistical  
Lumped-parameter Models of  
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***Exercise problems in each  
chapter.***

***Unlike earlier books in this  
series, this review describes***

***the selection of chemical thermodynamic data for species of two elements, neptunium and plutonium. Although this came about more by circumstance than design, it has allowed for a***

***more consistent approach to chemical interpretation than might have occurred in two separate treatments. It has also drawn attention to cases where the available data do not show expected parallels, and***

***where further work may be useful to confirm or refute apparent differences in the behaviour of neptunium and plutonium.***

***This book provides an accessible introduction to the***

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***principles and tools for modeling, analyzing, and synthesizing biomolecular systems. It begins with modeling tools such as reaction-rate equations, reduced-order models,***

***stochastic models, and specific models of important core processes. It then describes in detail the control and dynamical systems tools used to analyze these models. These include tools for analyzing***

***stability of equilibria, limit cycles, robustness, and parameter uncertainty. Modeling and analysis techniques are then applied to design examples from both natural systems and synthetic***

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***illustrations throughout,  
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and graduate students. For  
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***on the feedback control  
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to biomolecular systems.  
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*calculations The  
thoroughly revised and  
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Dynamics maintains the  
focus on gas flows below  
hypersonic. This*



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*targeted approach  
provides a cohesive and  
rigorous examination of  
most practical  
engineering problems in  
this gas dynamics flow  
regime. The conventional*

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*one-dimensional flow approach together with the role of temperature-entropy diagrams are highlighted throughout. The authors-noted experts in the*

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*field—include a modern  
computational aid,  
illustrative charts and  
tables, and myriad  
examples of varying  
degrees of difficulty to  
aid in the understanding*

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*of the material presented. The updated edition of Fundamentals of Gas Dynamics includes new sections on the shock tube, the aerospike nozzle, and*

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*the gas dynamic laser.*

*The book contains all  
equations, tables, and  
charts necessary to work  
the problems and  
exercises in each  
chapter. This book's*

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*accessible but rigorous  
style: Offers a  
comprehensively updated  
edition that includes  
new problems and  
examples Covers  
fundamentals of gas*

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*flows targeting those  
below hypersonic  
Presents the one-  
dimensional flow  
approach and highlights  
the role of temperature-  
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*Contains new sections  
that examine the shock  
tube, the aerospike  
nozzle, the gas dynamic  
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and aerospace  
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*continues to offer a  
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rigorous treatment of  
classical  
thermodynamics, while  
retaining an engineering  
perspective. With*

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*concise, applications-oriented discussion of topics and self-test problems, this text encourages students to monitor their own learning. This classic*

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*text provides a solid  
foundation for  
subsequent studies in  
fields such as fluid  
mechanics, heat transfer  
and statistical  
thermodynamics, and*

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*prepares students to  
effectively apply  
thermodynamics in the  
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Presents a comprehensive  
and rigorous treatment  
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environmental issues and  
a recognition of the  
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examples, as well as  
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Can we trust our senses to tell us the truth? Challenging leading scientific theories that claim that our senses report back objective reality, cognitive scientist Donald Hoffman argues that while we should take our perceptions seriously, we should not take them literally. How can it

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be possible that the world we see is not objective reality? And how can our senses be useful if they are not communicating the truth? Hoffman grapples with these questions and more over the course of this eye-opening work. Ever since Homo sapiens has walked the earth, natural selection has favored perception that hides

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the truth and guides us toward useful action, shaping our senses to keep us alive and reproducing. We observe a speeding car and do not walk in front of it; we see mold growing on bread and do not eat it. These impressions, though, are not objective reality. Just like a file icon on a desktop screen is a useful symbol rather



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