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This book covers
the fundamentals
of
thermodynamics
required to

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understand
electrical power
generation
systems, honing
in on the
application of
these principles to
nuclear reactor
power systems. It
includes all the
necessary
information

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regarding the fundamental laws to gain a complete understanding and apply them specifically to the challenges of operating nuclear plants. Beginning with definitions of thermodynamic variables such as

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temperature,
pressure and
specific volume,
the book then
explains the laws
in detail, focusing
on pivotal
concepts such as
enthalpy and
entropy,
irreversibility,
availability, and

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Maxwell relations.
Specific
applications of the
fundamentals to
Brayton and
Rankine cycles for
power generation
are considered in-
depth, in support
of the book's core
goal- providing an
examination of

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how the thermodynamic principles are applied to the design, operation and safety analysis of current and projected reactor systems. Detailed appendices cover metric and

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English system
units and
conversions,
detailed steam
and gas tables,
heat transfer
properties, and
nuclear reactor
system
descriptions.

While many of the
core labs from the

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first edition have been retained, a renewed focus on the basics of chemistry and the scientific process create an even more detailed supplemental offering.

This computer-based lab manual

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contains
experiments in
mechanics,
thermodynamics,
E&M, and optics
using hardware
and software
designed to
enhance readers'
understanding of
calculus-based
physics concepts.

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It uses an active learning cycle, including concept overviews, hypothesis-testing, prediction-making, and investigations.

Thermodynamics
In Nuclear Power
Plant Systems
Sustainable

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Hydraulics in the
Era of Global
Change
Foundations of High-Energy-Density
Physics
Marine Steam
Boilers
Proceedings of
the 4th IAHR
Europe Congress
(Liege, Belgium,

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27-29 July 2016)
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United States Air
Force Academy
High-energy-
density physics
explores the
dynamics of matter
at extreme
conditions. This
encompasses
temperatures and
densities far
greater than we

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experience on Earth. It applies to normal stars, exploding stars, active galaxies, and planetary interiors. High-energy-density matter is found on Earth in the explosion of nuclear weapons and in laboratories with high-powered

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lasers or pulsed-power machines. The physics explored in this book is the basis for large-scale simulation codes needed to interpret experimental results whether from astrophysical observations or laboratory-scale experiments. The

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key elements of high-energy-density physics covered are gas dynamics, ionization, thermal energy transport, and radiation transfer, intense electromagnetic waves, and their dynamical coupling. Implicit in this is a

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fundamental understanding of hydrodynamics, plasma physics, atomic physics, quantum mechanics, and electromagnetic theory. Beginning with a summary of the topics and exploring the major ones in depth, this book is

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a valuable resource for research scientists and graduate students in physics and astrophysics. This impressive collection features Richard Herrnstein's most important and original contributions to the social and

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behavioral
sciences--his
papers on choice
behavior in
animals and
humans and on his
discovery and
elucidation of a
general principle
of choice called the
matching law. In
recent years, the
most popular
theory of choice

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behavior has been rational choice theory. Developed and elaborated by economists over the past hundred years, it claims that individuals make choices in such a way as to maximize their well-being or utility under whatever

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constraints they face; that is, people make the best of their situations. Rational choice theory holds undisputed sway in economics, and has become an important explanatory framework in political science, sociology, and

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psychology.

Nevertheless, its empirical support is thin. The matching law is perhaps the most important competing explanatory account of choice behavior. It views choice not as a single event or an internal process of

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the organism but as a rate of observable events over time. It states that instead of maximizing utility, the organism allocates its behavior over various activities in exact proportion to the value derived from each activity. It differs subtly but

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significantly from
rational choice
theory in its
predictions of how
people exert self-
control, for
example, how they
decide whether to
forgo immediate
pleasures for
larger but delayed
rewards. It
provides, through
the primrose path

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hypothesis, a powerful explanation of alcohol and narcotic addiction. It can also be used to explain biological phenomena, such as genetic selection and foraging behavior, as well as economic decision

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making.

From the host of the History channel's Brad Meltzer's Decoded: the laws of the universe like you've never experienced them before. This approachable book explains the world of physics with clarity, humor, and

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a dash of
adventure. Physics
for Rock Stars is
not a weighty
treatise on science,
but a personal tour
of physics from a
quirky friend.

Anyone who's ever
wondered why
nature abhors a
vacuum, what
causes magnetic
attraction, or how

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to jump off a moving train or do a perfect stage dive will find answers and a few laughs too. No equations, numbers, or tricky concepts—just an inspiring and comical romp through the basics of physics and the beauty of the

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organized
universe.

Diffusion in Solids

The first law of the
rmodynamics.-v.2.

Entropy and the
second law

New Trends in

Physics Teaching

Making the Laws
of the Universe

Work for You

The Matching Law

Matt Richardson

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has the life most teenagers dream of: popular, athletic, smart, and the most beautiful girl in school that is, until he discovers Katelyn, a smart, average looking girl outside of his

clique. In order to date Katelyn, he must decide between his friends and his heart.

This laboratory manual is intended for a two-semester general chemistry

course. The procedures are written with the goal of simplifying a complicated and often challenging subject for students by applying concepts to everyday life.

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This lab manual covers topics such as composition of compounds, reactivity, stoichiometry, limiting reactants, gas laws, calorimetry, periodic trends, molecular

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**structure,
spectroscopy,
kinetics,
equilibria,
thermodynamics,
electrochemistry,
intermolecular
forces, solutions,
and coordination
complexes. By
the end of this
course, you**

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**should have a
solid
understanding of
the basic
concepts of
chemistry, which
will give you
confidence as
you embark on
your career in
science.
In an**

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**increasingly
urbanized world,
water systems
must be
designed and
operated
according to
innovative
standards in
terms of climate
adaptation,
resource**

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**efficiency,
sustainability
and resilience.**

**This grand
challenge
triggers
unprecedented
questions for hyd
ro-environment
research and
engineering.
Shifts in**

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**paradigms are
urgently needed
in the way we
view (circular)
water systems,
water as a
renewable
energy
(production and
storage), risk
management of
floods, storms,**

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sea level rise and droughts, as well as their consequences on water quality, morphodynamics (e.g., reservoir sedimentation, scour, sustainability of deltas) and the environment.

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Addressing these issues requires a deep understanding of basic processes in fluid mechanics, heat and mass transfer, surface and groundwater flow, among others.

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**Lab Manual for
Investigating
Chemistry
Bill Nye's Great
Big World of
Science
The Sciences
Scientific and
Technical
Aerospace
Reports
A Playful Way of**

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Discovering a Law of Nature Physics for Rock Stars

With photos, experiments, and more, this “appealing and highly informative” science book from the beloved TV host is “a winner” (School Library Journal). Science educator, TV host, and

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New York

Times—bestselling author Bill Nye is on a mission to help young people understand and appreciate the science that makes our world work. Featuring a range of subjects—physics, chemistry, geology, biology, astronomy, global warming, and more—this profusely illustrated book covers

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the basic principles of each science, key discoveries, recent revolutionary advances, and the problems that science still needs to solve for our Earth. Nye and coauthor Gregory Mone present the most difficult theories and facts in an easy-to-comprehend, humorous way. They interviewed numerous specialists

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from around the world,
in each of the fields
discussed, whose
insights are included
throughout. Also
included are
experiments kids can do
themselves to bring
science to life!

“Wordplay and wry wit
put extra fun into a trove
of fundamental
knowledge.” —Kirkus
Reviews (starred

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review) Includes
photographs,
illustrations, diagrams,
glossary, bibliography,
and index

Town is a collection of
thirteen linked short
stories for young adults.
Set in a small unnamed
Australian town over the
course of a year, there is
one story for each
month, plus an
overarching story to

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close, and each is told from the point of view of a different young person. These young men and women know each other - some intimately, some as friends, some as enemies and rivals, and some as mere acquaintances - and as the different characters appear in each other's stories, a vivid mosaic

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of the group's social structure begins to emerge. During the telling of these stories, which range in length from 2,000 words to 10,000 words, we learn much about the lives of these young people, who are all different in their own ways, and yet similar to each other - and to the young adult reader - in so many

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other distinctly
recognisable ways.

The authors of
RealTime Physics -
David Sokoloff,
Priscilla Laws, and Ron
Thornton - have been
pioneers in the
revolution of the physics
industry. In this edition,
they provide a set of
labs that utilize modern
lab technology to
provide hands-on

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information, as well as an empirical look at several new key concepts. They focus on the teaching/learning issues in the lecture portion of the course, as well as logistical lab issues such as space, class size, staffing, and equipment maintenance. Issues similar to those in the lecture have to with preparation and

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willingness to study.

Annual Catalogue

Theory and Experiment

Thermodynamics and

Chemistry \

Town

Argument-Driven

Inquiry in Physical

Science

Single Molecule

Biophysics and Poisson

Process Approach to

Statistical Mechanics

This text is an

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***unbound, three
hole punched
version. The
Sciences: An
Integrated
Approach, Binder
Ready Version, 8th
Edition by James
Trefil and Robert
Hazen uses an
approach that
recognizes that
science forms a
seamless web of***

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**knowledge about
the universe. This
text fully
integrates physics,
chemistry,
astronomy, earth
sciences, and
biology and
emphasizes
general principles
and their
application to real-
world situations.
The goal of the**

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***text is to help
students achieve
scientific literacy.
Applauded by
students and
instructors for its
easy-to-read style
and detail
appropriate for
non-science
majors, the eighth
edition has been
updated to bring
the most up-to-***

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**date coverage to
the students in all
areas of science.
Energy is typically
regarded as
understandable,
despite its multiple
forms of storage
and transfer.
Entropy, however,
is an enigma, in
part because of
the common view
that it represents**

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disorder. That view is flawed and hides entropy's connection with energy. In fact, macroscopic matter stores internal energy, and that matter's entropy is determined by how the energy is stored. Energy and entropy are

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intimately linked.

Energy and

Entropy: A

Dynamic Duo

illuminates

connections

between energy

and entropy for

students, teachers,

and researchers.

Conceptual

understanding is

emphasised where

possible through

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**examples,
analogies, figures,
and key points.**

Features:

**Qualitative
demonstration that
entropy is linked to
spatial and
temporal energy
spreading, with
equilibrium
corresponding to
the most equitable
distribution of**

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energy, which corresponds to maximum entropy Analysis of energy and entropy of matter and photons, with examples ranging from rubber bands, cryogenic cooling, and incandescent lamps to Hawking radiation of black holes Unique

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**coverage of
numerical entropy,
the 3rd law of
thermodynamics,
entropic force,
dimensionless
entropy, free
energy, and
fluctuations, from
Maxwell's demon
to Brownian
ratchets, plus
attempts to violate
the second law of**

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***thermodynamics
Lists citations with
abstracts for
aerospace related
reports obtained
from world wide
sources and
announces
documents that
have recently been
entered into the
NASA Scientific
and Technical
Information***

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**Lab Investigations
for Grades 6-8
Design of Fluid
Thermal Systems
An Ultralow
Temperature
Phenomenon
Recent
Developments
RealTime Physics,
Heat and
Thermodynamics,
Module 2**

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**Challenges to The
Second Law of
Thermodynamics**

*This book presents
the proceedings of
the 19th*

*International
Conference on
Interactive*

*Collaborative
Learning, held 21-23
September 2016 at
Clayton Hotel in
Belfast, UK. We are*

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currently witnessing a significant transformation in the development of education. The impact of globalisation on all areas of human life, the exponential acceleration of developments in both technology and the global markets, and the growing

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need for flexibility and agility are essential and challenging elements of this process that have to be addressed in general, but especially in the context of engineering education. To face these topical and very real challenges,

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higher education is called upon to find innovative responses. Since being founded in 1998, this conference has consistently been devoted to finding new approaches to learning, with a focus on collaborative learning. Today the

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ICL conferences have established themselves as a vital forum for the exchange of information on key trends and findings, and of practical lessons learned while developing and testing elements of new technologies and pedagogies in

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learning.

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Module 2 Heat and T
hermodynamics Joh
n Wiley & Sons
Are you interested
in using argument-
driven inquiry for
middle school lab
instruction but just
aren't sure how to
do it? Argument-**

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***Driven Inquiry in
Physical Science
will provide you with
both the information
and instructional
materials you need
to start using this
method right away.
The book is a one-
stop source of
expertise, advice,
and investigations
to help physical
science students***

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***work the way
scientists do. The
book is divided into
two basic parts: 1.
An introduction to
the stages of
argument-driven
inquiry—from
question
identification, data
analysis, and
argument
development and
evaluation to double-***

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*blind peer review
and report revision.*

2. A well-organized series of 22 field-tested labs designed to be much more authentic for instruction than traditional laboratory activities. The labs cover four core ideas in physical science: matter, motion and

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forces, energy, and waves. Students dig into important content and learn scientific practices as they figure out everything from how thermal energy works to what could make an action figure jump higher. The authors are veteran teachers who know your time

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constraints, so they designed the book with easy-to-use reproducible student pages, teacher notes, and checkout questions. The labs also support today's standards and will help your students learn the core ideas, crosscutting concepts, and

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scientific practices found in the Next Generation Science Standards. In addition, the authors offer ways for students to develop the disciplinary skills outlined in the Common Core State Standards. Many of today's middle school teachers—like you—want to find

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new ways to engage students in scientific practices and help students learn more from lab activities. Argument-Driven Inquiry in Physical Science does all of this while also giving students the chance to practice reading, writing, speaking, and using math in

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***the context of
science.***
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***Discover Entropy
and the Second Law
of Thermodynamics
Exploring General
Chemistry in the
Laboratory
Heat and
Thermodynamics
Catalog
A Treatise on Heat
with Special Regard
to Its Practical***

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Application
Active Learning
Laboratories

In the context of life cycles, these units use central science concepts to explore the energy, raw materials, and waste issues that are the history of any manufactured product. As students consider

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the trade-offs made at each step, they will learn to recognize the decisions made to balance economic, developmental, and environmental needs.

Diffusion in Solids: Recent Developments provides an overview of diffusion in crystalline solids. This book discusses the

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various aspects of the theory of diffusion.

Organized into nine chapters, this volume starts with a discussion on the process of diffusion in solids. This book then examines the tools that supplement the conventional diffusion measurements, including

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electromigration, ionic conductivity, isotope effects, and vacancy wind effects. This text explores the molecular dynamic calculation by which the interatomic forces must be assumed.

Other chapters discuss the method of measurement of the isotope effect on

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diffusion, which is the most powerful method of determining relevant information about the correlation factor. This volume extensively discusses diffusion in organic and amorphous materials, as well as interstitial diffusion in solids. The final chapter deals with

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ionic motion and diffusion in various groups of materials called fast ionic conductors. Solid-state physicists, materials scientists, physical chemists, and electrochemists will find this book extremely useful. This is an overview of single molecule

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physics, the study of both equilibrium and non-equilibrium properties at the single molecule level. It begins with an introduction to this fascinating science and includes a chapter on how to build the most popular instrument for single molecule biophysics,

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the total internal reflection fluorescence (TIRF) microscope. It concludes with the Poisson process approach to statistical mechanics, explaining how to relate the process to diverse areas and see how data analysis and error bars are integral parts of science.

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RealTime Physics
Papers in Psychology
and Economics

An Integrated
Approach

Energy and Entropy
Curriculum Handbook
with General
Information

Concerning ... for the
United States Air
Force Academy

A Dynamic Duo

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This book is designed to serve senior-level engineering students taking a capstone design course in fluid and thermal systems design. It is built from the ground up with the needs and interests of practicing engineers in mind;

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the emphasis is on practical applications. The book begins with a discussion of design methodology, including the process of bidding to obtain a project, and project management techniques. The text continues with

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an introductory overview of fluid thermal systems (a pump and pumping system, a household air conditioner, a baseboard heater, a water slide, and a vacuum cleaner are among the examples given), and a review of the properties of fluids

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and the equations of fluid mechanics. The text then offers an in-depth discussion of piping systems, including the economics of pipe size selection. Janna examines pumps (including net positive suction head considerations) and piping systems. He

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provides the reader with the ability to design an entire system for moving fluids that is efficient and cost-effective. Next, the book provides a review of basic heat transfer principles, and the analysis of heat exchangers, including double

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pipe, shell and tube, plate and frame cross flow heat exchangers. Design considerations for these exchangers are also discussed. The text concludes with a chapter of term projects that may be undertaken by teams of students.

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the product
description or the
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not be available in
the ebook version.
Excellent,
informative volume
focuses on
dynamics of
nonradiating fluids,
problems involving

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waves, shocks and stellar winds, physics of radiation, radiation transport, and the dynamics of radiating fluids.

1984 edition.

Marine Steam

Boilers: Fourth

Edition deals with

the involved

concepts, parts and

construction, usage

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and maintenance, and the future direction of steam boilers. The book covers topics such as the history of steam boilers; theoretical development of steam boilers; and the materials and methods used in their construction. Also covered are

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the types of boilers
- the tank-type
boiler, which
includes horizontal
and vertical
boilers; water tube
boilers such as the
Foster Wheeler
boiler, Babcock &
Wilcox boilers, and
combustion
engineering boilers;
and dual-fired
boilers. The text is

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recommended for marine engineers who would like to know more about boilers, its different types and the advantages of each, and their operation.

The Homecoming
Date

Physical Processes
of Matter at
Extreme Conditions

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Interactive

Collaborative

Learning

Heat for Engineers

Foundations of

Radiation

Hydrodynamics

Introduction to

Thermodynamics

and the Zeroth

Law. Internal

Energy and the

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Thermodynamics

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For the engineering student.

*Physics of
Cryogenics: An
Ultralow*

*Temperature
Phenomenon
discusses the
significant number
of advances that
have been made
during the last few
years in a variety
of cryocoolers,*

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such as Brayton, Joule-Thomson, Stirling, pulse tube, Gifford-McMahon and magnetic refrigerators. The book reviews various approaches taken to improve reliability, a major driving force for new research areas. The advantages and

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disadvantages of different cycles are compared, and the latest

improvements in each of these cryocoolers is

discussed. The

book starts with

the thermodynamic fundamentals,

followed by the

definition of

cryogenic and the

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Thermodynamics
associated science
behind low

temperature
phenomena and
properties. This
book is an ideal
resource for
scientists,
engineers and
graduate and
senior
undergraduate
students who need
a better

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*understanding of
the science of
cryogenics and
related
thermodynamics.
Defines the
fundamentals of
thermodynamics
that are associated
with cryogenic
processes Provides
an overview of the
history of the
development of*

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Thermodynamics
cryogenic
technology

*Includes new, low
temperature tables
written by the
author Deals with
the application of
cryogenics to
preserve objects at
very low
temperature
Explains how
cryogenic
phenomena work*

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*for human cell and
human body
preservations and
new medical
approaches*

*This is a sequel to
the author's book
entitled "Entropy
Demystified." The
aim is essentially
the same as that of
the previous book
by the author: to
present Entropy*

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and the Second Law as simple, meaningful and comprehensible concepts. In addition, this book presents a series of "experiments" which are designed to help the reader discover entropy and the Second Law. While doing the experiments,

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the reader will encounter no unexpected results, and concepts of entropy and the Second Law will emerge naturally from these experiments without a tinge of mystery. These concepts are explained with the

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help of a few familiar ideas of probability and a 20-question game. The main “value” of the book is to introduce entropy and the Second Law in simple language which renders it accessible to any reader who can read and is curious

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about the basic laws of nature. The book is addressed to anyone interested in science and in understanding natural phenomenon. It will give the reader the opportunity to discover one of the most fundamental laws of physics — a

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law that has resisted complete understanding for over a century. The book is also designed to be enjoyable. There is no other book of its kind (except "Entropy Demystified" by the same author) that offers the reader a unique

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opportunity to discover one of the most profound laws — sometimes viewed as a mysterious law — without the tinge mystery. There are no pre-requisites expected of the readers; all that the reader is expected to do is to follow the

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*experiments or
imagine doing the
experiments and
reach the
inevitable
conclusions.*

*A Numerical
Experiment in
Predicting Stratus
Clouds*

*Lab Manual for
General, Organic,
and Biochemistry
RealTime Physics*

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*Active Learning
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19th ICL
Conference -*

Volume 1

The advance of scientific
thought in ways
resembles biological and

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geologic transformation:
long periods of gradual
change punctuated by
episodes of radical
upheaval. Twentieth
century physics
witnessed at least three
major shifts — relativity,
quantum mechanics and
chaos theory — as well
many lesser ones. Now, st
early in the 21 , another
shift appears imminent,
this one involving the

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second law of thermodynamics. Over the last 20 years the absolute status of the second law has come under increased scrutiny, more than during any other period its 180-year history. Since the early 1980 ' s, roughly 50 papers representing over 20 challenges have appeared in the refereed scientific literature. In July

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2002, the first conference on its status was convened at the University of San Diego, attended by 120 researchers from 25 countries (QLSL2002) [1]. In 2003, the second edition of Leff's and Rex's classic anthology on Maxwell demons appeared [2], further raising interest in this emerging field. In 2004,

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the mainstream scientific journal Entropy published a special edition devoted to second law challenges [3]. And, in July 2004, an echo of QLSL2002 was held in Prague, Czech Republic [4]. Modern second law challenges began in the early 1980 ' s with the theoretical proposals of Gordon and Denur.

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Starting in the mid-1990 's, several proposals for experimentally testable challenges were advanced by Sheehan, et al. By the late 1990 's and early 2000 's, a rapid succession of theoretical quantum mechanical ? challenges were being advanced by C apek, et al.

Teaching all of the

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necessary concepts within the constraints of a one-term chemistry course can be challenging. Authors Denise Guinn and Rebecca Brewer have drawn on their 14 years of experience with the one-term course to write a textbook that incorporates biochemistry and organic chemistry throughout

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each chapter, emphasizes cases related to allied health, and provides students with the practical quantitative skills they will need in their professional lives. Essentials of General, Organic, and Biochemistry captures student interest from day one, with a focus on attention-getting applications relevant to

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health care professionals and as much pertinent chemistry as is reasonably possible in a one term course. Students value their experience with chemistry, getting a true sense of just how relevant it is to their chosen profession. To browse a sample chapter, view sample ChemCasts, and more visit www.whfreeman.com/gob

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