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treatment delves into the advanced topics of energy and work as they relate to various engineering fields.

This practical approach describes real-world applications of thermodynamics concepts, including solar energy, refrigeration, air

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conditioning,
thermofluid design,
chemical design,
constructal design,
and more. This new
fourth edition has
been updated and
expanded to
include current
developments in
energy storage,
distributed energy
systems, entropy
minimization, and

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industrial applications, linking new technologies in sustainability to fundamental thermodynamics concepts. Worked problems have been added to help students follow the thought processes behind various applications, and

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additional
homework
problems give
them the
opportunity to
gauge their
knowledge. The
growing demand
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efficiency has
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applications of

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thermodynamics. This book helps future engineers make the fundamental connections, and develop a clear understanding of this complex subject. Delve deeper into the engineering applications of thermodynamics

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Work problems
directly applicable
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concepts into
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Understand the
thermodynamics of
emerging energy
technologies
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chapters allow students to quickly review the fundamentals before diving right into practical applications.

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discussion and
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guidance toward
even the most
complex concepts.

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Thermodynamics is
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for today's newest
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assessment of the methodologies of thermodynamic optimization, exergy analysis and thermoeconomics, and their application to the design of efficient and environmentally sound energy systems. The

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chapters are organized in a sequence that begins with pure thermodynamics and progresses towards the blending of thermodynamics with other disciplines, such as heat transfer and cost accounting.

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analysis stand out:
entropy generation
minimization,
exergy (or
availability)
analysis, and
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The book reviews
current directions
in a field that is
both extremely
important and
intellectually alive.
Additionally, new

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directions for
research on
thermodynamics
and optimization
are revealed.

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Most heat transfer

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transfer fundamentals
and modeling of heat
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measured, and
presented for analysis
in example problems
and in practice
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and presents the

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conduit gives

equations to model the

flow inside an

internally finned duct.

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of all life - evolution is

more than biological.

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everywhere, and the

same elegant

principles of physics

apply to all things.

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Every animal and
human wants power.

From power comes
movement: body
movement, internal
flow (pumping blood,
and air), external flow
(locomotion,
migration), and the
search for safety such
as warmth, drinkable
water, health, and the
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highways and steel beams that do not break when we walk or drive on them. The growth and spread of civilisation is the flow of more power to more individuals, for greater movement.

And everyone wants more power. That desire to improve, to organise, to join, to

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convince others, and
to affect change is a
trait we all share, and
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is what make all
evolution not only
possible but
mandatory.

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designs found
all around and
inside us

(such as the
'trees' of
river basins,
human lungs,
blood and city
traffic). It
then shows how
all flow
systems are

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**driven by
power from
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of freedom.
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In this groundbreaking book, Adrian Bejan takes the recurring patterns in nature—trees, tributaries, air passages, neural networks, and lightning bolts—and reveals how a single principle of physics,

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the constructal law, accounts for the evolution of these and many other designs in our world.

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River basins, cardiovascular systems, and bolts of lightning are very efficient flow systems to move a current—of water, blood, or electricity. Likewise, the more complex architecture of animals evolve to cover greater distance per unit of useful energy, or increase

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their flow across the land. Such designs also appear in human organizations, like the hierarchical “flowcharts” or reporting structures in corporations and political bodies. All are governed by the same principle, known as the constructal law, and configure and reconfigure

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*themselves over time
to flow more
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shifting book that will
fundamentally
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environmental compatibility. These goals can be achieved with help of control systems. Modeling and Control of Internal Combustion Engines (ICE) addresses these issues by offering an introduction to cost-effective model-based control system design for ICE. The primary emphasis is put on the

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*ICE and its auxiliary
devices. Mathematical*

models for these

processes are

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and selected

feedforward and

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problems are

discussed. The

appendix contains a

summary of the most

important controller

analysis and design

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theory, duct flow,

scale analysis, and

the structure of

turbulence. In this new

volume, Bejan

explores topics and

research

developments that

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multi-scale design,
vascularization, and
hierarchical*

*distribution of many
small features*

*Explores new work on
conduction*

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convection with

nanofluids, boiling and

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***covered in a
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***This book
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and fluid
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EGM applies
these principles
to the modeling
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**optimization of
real systems**

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that are**

characterized

by finite size

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provides a
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identify recent

EGM advances

in engineering

and physics.

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advances

include the

optimization of

storage by

melting and

solidification;

heat exchanger

design; power

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**reservoirs,
enhanced
recovery of
petroleum
reservoirs, etc.
These, and many
other, important
practical
applications have
resulted in a rapid
expansion of
research in the
general area of**

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porous media and

thus generated a

vast amount of

both theoretical

and experimental

research work. It

has attracted the

attention of

industrialists,

engineers and

scientists from

many varying

disciplines, such

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**as applied
mathematics,
chemical, civil,
environmental,
mechanical and
nuclear
engineering,
geothermal
physics, food
science, medicine,
etc. This book
contains some of
the contributions**

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**to the NATO
Advanced Study
Institute on
Emerging
Technologies and
Techniques in
Porous Media that
was held in
Neptun-Olimp,
Constanta, Black
Sea, Romania on
9-20 June, 2003.
Each chapter**

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begins with a brief yet complete presentation of the related topic. This is followed by a series of solved problems. The latter are scrupulously detailed and complete the synthetic presentation given

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**at the beginning of
each chapter.**

**There are about 50
solved problems,
which are mostly
original with
gradual degree of
complexity
including those
related to recent
findings in
convective heat
transfer**

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phenomena. Each problem is

associated with

clear indications

to help the reader

to handle

independently the

solution. The book

contains nine

chapters including

laminar external

and internal flows,

convective heat

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**transfer in laminar
wake flows,
natural convection
in confined and no-
confined laminar
flows, turbulent
internal flows,
turbulent
boundary layers,
and free shear
flows.**

**This book is
designed to:**

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Provide students with the tools to model, analyze and solve a wide range of engineering applications involving conduction heat transfer. Introduce students to three topics not commonly

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covered in
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conduction heat
transfer textbooks:
perturbation
methods, heat
transfer in living
tissue, and
microscale
conduction. Take
advantage of the
mathematical
simplicity of 0-
dimensional

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conduction to present and explore a variety of physical situations that are of practical interest. Present textbook material in an efficient and concise manner to be covered in its entirety in a one semester graduate

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**course. Drill
students in a
systematic
problem solving
methodology with
emphasis on
thought process,
logic, reasoning
and verification.
To accomplish
these objectives
requires judgment
and balance in the**

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**selection of topics
and the level of
details.**

**Mathematical
techniques are
presented in
simplified fashion
to be used as tools
in obtaining
solutions.**

**Examples are
carefully selected
to illustrate the**

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**application of
principles and the
construction of
solutions.**

**Solutions follow
an orderly
approach which is
used in all
examples. To
provide
consistency in
solutions logic, I
have prepared**

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**solutions to all
problems included
in the first ten
chapters myself.
Instructors are
urged to make
them available
electronically
rather than
posting them or
presenting them in
class in an
abridged form.**

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**Experiments in
Heat Transfer and
Thermodynamics**

A HEAT

TRANSFER

TEXTBOOK

Hierarchy in

Nature, Society

and Science

Liquid-Vapor

Phase-Change

Phenomena

The Physics of

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Life

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This
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introduction to
transport
phenomena in
materials
engineering
balances an
explanation of
the fundamentals
governing fluid
flow and the
transport of
heat and mass

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with their

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common

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specific systems

in materials

engineering. It

introduces the

influences of

properties and

geometry on

fluid flow using

familiar fluids

such as air and

water. Covers

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topics such as
engineering
units and
pressure in
static fluids;
momentum
transport and
laminar flow of
Newtonian
fluids;
equations of
continuity and
conservation of
momentum and

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fluid flow past
submerged

objects;

turbulent flow;

mechanical

energy balance

and its

application to

fluid flow;

transport of

heat by

conduction;

transport of

heat by

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transport by

thermal

radiation; mass

transport in the

solid state by

diffusion; mass

transport in

fluids. Includes

extensive

appendices.

Engineering

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curricula are notoriously demanding. One way to make the material easier to grasp and more fun to learn is to emphasize the experimental or "hands-on" aspects of engineering problems. This

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unique book is about learning through active participation in laboratory experiments, and it specifically aims to dispel some of the mystery so many students associate with the study of thermodynamics

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and heat transfer. In it,

the author

presents a

collection of

experiments in

heat transfer

and

thermodynamics

contributed by

leading

engineering

educators. The

experiments have

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been tested,
evaluated, and
proved
successful for
classroom use.
Each experiment
follows the same
step-by-step
format, which
includes the
objective of the
experiment,
apparatus
needed,

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procedure,
suggested
headings, and
references. The
experiments use
apparatus that
is easily built
or attainable.

Among the topics
covered are heat
conduction,
convection,
boiling, mixing,
diffusion,

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radiation, heat
pipes and

exchangers, and
thermodynamics.

The book will be
especially

useful as a

companion to

standard heat

transfer and

thermodynamics

texts.

Arming readers

with both

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theoretical and
practical
knowledge,
Advanced Linear
Algebra for
Engineers with
MATLAB® provides
real-life
problems that
readers can use
to model and
solve
engineering and
scientific

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problems in
fields ranging
from signal
processing and
communications
to

electromagnetics
and social and
health sciences.

Facilitating a
unique

understanding of
rapidly evolving
linear algebra

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and matrix
methods, this
book: Outlines
the basic
concepts and
definitions
behind matrices,
matrix algebra,
elementary
matrix
operations, and
matrix
partitions,
describing their

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potential use in
signal and image
processing
applications

Introduces
concepts of
determinants,
inverses, and
their use in
solving linear
equations that
result from
electrical and
mechanical-type

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systems Presents
special

matrices, linear
vector spaces,
and fundamental
principles of
orthogonality,
using an
appropriate
blend of
abstract and
concrete
examples and
then discussing

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associated
applications to

enhance readers'
visualization of
presented
concepts

Discusses linear
operators,
eigenvalues, and
eigenvectors,
and explores
their use in
matrix

diagonalization

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and singular
value
decomposition
Extends
presented
concepts to
define matrix
polynomials and
compute
functions using
several well-
known methods,
such as
Sylvester's

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expansion and
Cayley-Hamilton

Introduces state

space analysis

and modeling

techniques for

discrete and

continuous

linear systems,

and explores

applications in

control and elec

tromechanical

systems, to

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provide a
complete
solution for the
state space
equation Shows
readers how to
solve
engineering
problems using
least square,
weighted least
square, and
total least
square

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assignments that
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to enhance
readers'
understanding of
the material
Striking the
appropriate
balance between

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theory and real-

life

applications,
this book

provides both

advanced

students and

professionals in

the field with a

valuable

reference that

they will

continually

consult.

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Jiji's extensive understanding of how students think and learn, what they find difficult, and which elements need to be stressed is integrated in this work. He employs an organization and methodology

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derived from his
experience and
presents the
material in an
easy to follow
form, using
graphical
illustrations
and examples for
maximum effect.

The second,
enlarged edition
provides the
reader with a

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thorough
introduction to
external
turbulent flows,
written by Glen
Thorncraft.

Additional
highlights of
note:

Illustrative
examples are
used to
demonstrate the
application of

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Principles and the construction

of solutions,

solutions follow

an orderly

approach used in

all examples,

systematic

problem-solving

methodology

emphasizes

logical

thinking,

assumptions,

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approximations,
application of
principles and
verification of
results. Chapter
summaries help
students review
the material.
Guidelines for
solving each
problem can be
selectively
given to
students.

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Fin Shape
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Thermal
Optimization
Using Bejan's
Constructal
Theory
An Introduction
to Convective
Heat Transfer
Analysis
Shape and
Structure, from
Engineering to
Nature

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Fluid Mechanics
The Evolution of
Everything
Filling the gap
between basic
undergraduate
courses and
advanced graduate
courses, this text
explains how to
analyze and solve
conduction,
convection, and

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radiation heat

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transfer problems

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analytically. It

describes many well-

known analytical

methods and their

solutions, such as

Bessel functions,

separation of

variables, similarity

method, integral

method, and matrix

inversion method.

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Developed from the author's 30 years of teaching, the text also presents step-by-step mathematical formula derivations, analytical solution procedures, and numerous demonstration examples of heat transfer

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applications.

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A comprehensive
and rigorous
introduction to
thermal system
design from a
contemporary
perspective Thermal
Design and
Optimization offers
readers a lucid
introduction to the
latest

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methodologies for
the design of
thermal systems
and emphasizes
engineering
economics, system
simulation,
and optimization
methods. The
methods of exergy
analysis,
entropy generation
minimization, and

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thermoeconomics
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are incorporated in

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anevolutionary

manner. This book

is one of the few

sources available

that addresses

therecommendation

s of the

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andTechnology for

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design engineering.

Intended

for classroom use as

well as self-study,

the text provides a

review

of fundamental

concepts, extensive

reference lists, end-

of-chapter problem

sets, helpful

appendices, and a

comprehensive

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case study that is
followed throughout

the text. Contents

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Introduction to
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Thermodynamics,
Modeling, and
Design Analysis *

Exergy Analysis *

Heat Transfer,
Modeling, and

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Design Analysis *

Applications with

Heat and Fluid Flow

* Applications with

Thermodynamics

and Heat and Fluid

Flow * Economic

Analysis *

Thermoeconomic

Analysis and

Evaluation *

Thermoeconomic

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Thermal Design and Optimization offers engineering students, practicing engineers, and technical managers a comprehensive and rigorous introduction to thermal system design and optimization from a distinctly

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contemporary
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perspective. Unlike
traditional books that

are largely oriented
toward design

analysis

and components,

this forward-thinking

book aligns itself

with an increasing

number of active

designers who

believe that

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more effective, system-oriented design methods are needed. Thermal Design and Optimization offers a lucid presentation of thermodynamics, heat transfer, and fluid mechanics as they are applied to the design of thermal systems.

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This book broadens the scope of engineering design by placing a strong emphasis on engineering economics, system simulation, and optimization techniques. Opening with a concise review of fundamentals, it develops design

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methods within a framework of industrial applications that gradually increase in complexity.

These applications include, among others, power generation by large and small systems, and cryogenic systems for the man

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Manufacturing, chemical,
and food processing

industries. This

unique book draws

on the best

contemporary

thinking

about design and

design

methodology,

including

discussions of

concurrent design

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and quality function
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deployment. Recent

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developments

based on the second
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especially the use of
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application of

important

design principles

introduced, a single

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system is followed

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reference lists, end-
of-chapter

problemsets, and

helpful appendices,

this is a superb text

for both

the classroom and

self-study, and for

use in industrial

design, development

, and research. A

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heat exchangers,
periodic heat flow,

boiling off finned
surfaces, and other
essential topics.

Electronic

technology is
developing rapidly

and, with it, the
problems

associated with the
cooling of

microelectronic

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equipment are becoming increasingly complex. So much so that it is necessary for experts in the fluid and thermal sciences to become involved with the cooling problem. Such thoughts as these led to an

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approach to leading
specialists with a
request to contribute
to the present book.

Cooling of
Electronic Systems
presents the
technical progress
achieved in the
fundamentals of the
thermal
management of
electronic systems

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and thermal strategies for the design of microelectronic equipment. The book starts with an introduction to the cooling of electronic systems, involving such topics as trends in computer system cooling, the cooling of high

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performance

computers, thermal

design of

microelectronic

components, natural

and forced

convection cooling,

cooling by impinging

air and liquid jets,

thermal control

systems for high

speed computers,

together with a

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detailed review of
advances in
manufacturing and
assembly
technology.
Following this,
practical methods
for the
determination of the
parameters required
for the thermal
analysis of
electronic systems

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and the accurate prediction of temperature in consumer electronics. Cooling of Electronic Systems is currently the most up-to-date book on the thermal management of electronic and microelectronic equipment, and the

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Complex Energy

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Heat Transfer
Handbook
Cooling of
Electronic Systems
Porous and
Complex Flow
Structures in
Modern
Technologies

The book contains

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**research results
obtained by**

applying Bejan's

Constructal Theory

to the study and

therefore the

optimization of

fins, focusing on T-

shaped and Y-

shaped ones. Heat

transfer from

finned surfaces is

an example of

combined heat

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transfer natural or forced convection on the external parts of the fin, and conducting along the fin. Fin's heat exchange is rather complex, because of variation of both temperature along the fin and convective heat transfer

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coefficient.

Furthermore
possible presence
of more fins
invested by the
same fluid flow has
to be considered.
Classical fin theory
tried to reduce the
coupled heat
transfer problem
to a one-
dimensional
problem by

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defining an average temperature of the fin and writing equations using this parameter. However, it was shown that this approach cannot be used because of the effects of two-dimensional heat transfer, especially in the presence of

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short fins. CFD codes offer the possibility to consider bi-dimensional (and more generally, three-dimensional) effects and then a more real approach to the physic phenomena of finned surface's heat exchange. A commercial CFD

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code was used to analyse the case of heat exchange in presence of T-shaped fins, following an approach suggested by Bejan's Constructal Theory. The comparative results showed a significant agreement with

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previous research taken as a reference, and this result allows for the application of this approach to a wider range of systems. T-shaped optimized fin geometry is the starting point for further research. Starting from the optimal results (T-

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shape optimized
fins), we show the

trend of the

assessment

parameter (the

dimensionless

conductance) in

function of the

angle between the

two horizontal

arms of the fin. A

value for, 90

Since the second

edition of Liquid-

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Dajian Solution
**Vapor Phase-
Change**

**Phenomena was
written, research
has substantially
enhanced the
understanding of
the effects of
nanostructured
surfaces, effects of
microchannel and
nanochannel
geometries, and
effects of extreme**

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**wetting on liquid-
vapor phase-**

change processes.

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in these areas, the**

new third edition

includes significant

new coverage of

microchannels and

nanostructures,

and numerous

other updates.

More worked

examples and

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**numerous new
problems have
been added, and a
complete solution
manual and
electronic figures
for classroom
projection will be
available for
qualified adopting
professors.
A revised edition
of the industry
classic, this third**

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edition shows how the field of heat transfer has grown and prospered over the last two decades. Readers will find this edition more accessible, while not sacrificing its thorough treatment of the most up-to-date information on

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**current research
and applications in
the field. Features
include: Updated
and expanded
coverage of
convection in
porous media,
focusing on
microscale heat
exchangers and
optimization of
flow configurations
Emphasis on**

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**original and
effective methods**

such as scale

analysis, heatlines

for visualization,

intersection of

asymptotes for

optimization, and

constructal theory

for thermofluid

design A readable

text for students,

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problems and
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exchanger design
An accompanying
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Structures in
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approach to the field, considering the fundamentals of porous media in terms of the key roles played by these materials in modern technology.

Intended as a text for advanced undergraduates and as a reference for practicing

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engineers, the book uses the physics of flows in porous materials to tie together a wide variety of important issues from such fields as biomedical engineering, energy conversion, civil engineering, electronics, chemical

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engineering, and environmental engineering. Thus, for example, flows of water and oil through porous ground play a central role in energy exploration and recovery (oil wells, geothermal fluids), energy conversion (effluents from

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refineries and

power plants), and

environmental

engineering

(leachates from

waste

repositories).

Similarly, the

demands of

miniaturization in

electronics and in

biomedical

applications are

driving research

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into the flow of heat and fluids through small-scale porous media (heat exchangers, filters, gas exchangers).

Filters, catalytic converters, the drying of stored grains, and a myriad of other applications involve flows

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**through porous
media. By**

Bojan S. Spalinski

**providing a unified
theoretical**

framework that

includes not only

the traditional

homogeneous and

isotropic media but

also models in

which the

assumptions of

representative

elemental volumes

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**or global thermal
equilibrium fail,
the book provides**

practicing

engineers the tools

they need to

analyze complex

situations that

arise in practice.

This volume

includes examples,

solved problems

and an extensive

glossary of

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symbols.

Entropy Solution

Generation

Minimization

Extended Surface

Heat Transfer

Heat Conduction

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undergraduate

or graduate

level students in

courses of

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schools of

mechanical

engineering

Special

Features: ·

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more student

friendly and

accessible with

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material. New

and updated

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examples

reflecting real-

world research

and applications

including heat

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available for all
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