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approaches;
Maximizes
reader
understanding of
the fundamentals
of how materials
change, what
transport
processes are
involved, and
how these can be

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Introduces new
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manufacturing
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traditional
processing

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methods, such as
heat treatment,
extrusion,
casting, injection
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bonding, to show
how they have
evolved and how
they could be
used for meeting
the challenges
that we face

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stress & strain,
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equations used,
making the text
appropriate for
diverse learning
styles. The
approach is
designed to allow
for use of
calculators and
computers
throughout, and to
show the ways
computer analysis

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can be used to
model problems and
explore "what
if?" design
analysis scenarios.

Publisher

Description

Thermal systems
play an increasingly
symbiotic role
alongside
mechanical systems
in varied

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applications
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spanning materials
processing, energy
conversion,
pollution,
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automobiles.

Responding to the
need for a flexible,
yet systematic
approach to
designing thermal
systems across

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such diverse fields,
Design and
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Refrigeration plays
a prominent role in
our everyday lives,
and cryogenics
plays a major role in
medical science,
space technology
and the cooling of
low-temperature

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electronics. This volume contains chapters on basic refrigeration systems, non-compression refrigeration and cooling, and topics related to global environmental issues, alternative refrigerants, optimum refrigerant

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selection, cost-
quality optimization
of refrigerants,
advanced
thermodynamics of
reverse-cycle
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applications in
medicine,
cryogenics, heat
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refrigeration,

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multisalt resorption
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heat pumps,
cryocoolers,
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transfer and
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other topics
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design, and
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as pulse tube

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refrigeration, which
is the most efficient
of all cryocoolers
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design and

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applications of
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computers of
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programs for
calculations,
word
processing,
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this book is on
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***objective-that
of control. The
forms of micro
computers
used in control
range from
small boards
dedicated to
control a
single device
to microcompu
ters that***

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operation of
numerous
smaller
computers in a
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complex or an
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plant. The
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applications
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recently has
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been in the
microcom
puters
dedicated to
control
functions in
automobiles,
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machines,

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machines, and
almost all
devices where
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decisions are
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sponded in the
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growth in
microcompute
r control
applications in
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systems.
Universities
have
established
courses in
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control in such
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as mechanical,
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**chemical and
others.**
Instructors
and students
in these
courses see a
clear role in
the field that
complements
that of the
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***usually has an
electrical
engineering or
computer
science
background.
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nonCS person
should first
and foremost
be com petent
in the***

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**mechanical or
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system being
controlled.
The objectives
of extending
familiarity into
the computer
controller are
(1) to learn
the char
acteristics,**

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*limitations,
and capabilit.*
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fundamentals
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introducing***

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(Munson) and
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design of chemical
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sectors). New to
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Design, and Part
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flowsheet
development,

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safety and
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environmental

impact and
optimization. Part
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lecture course or

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instructors

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graduate
textbook, covering
modern thermal
devices such as
heat sinks,
thermoelectric
generators and
coolers, heat
pipes, and heat
exchangers as
design

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components in larger systems. These devices are becoming increasingly important and fundamental in thermal design across such diverse areas as microelectronic cooling, green or

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thermal energy
conversion, and
thermal control
and management
in space, etc.

However, there is
no textbook
available covering
this range of
topics. The
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may be used as a

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course after the
fundamental

courses such as
thermodynamics,
fluid mechanics,
and heat transfer.

The underlying
concepts in this
book cover the, 1)
understanding of
the physical

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