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# Thermodynamic Cengel 6th Edition

*Now in a new  
edition, this  
book continues  
to set the  
standard for  
teaching  
readers how to*

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*be effective  
problem  
solvers,  
emphasizing  
the authors's  
signature  
methodologies  
that have  
taught over a  
half million  
students  
worldwide.*

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*This new*  
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*provides a student-friendly approach that emphasizes the relevance of thermodynamics principles to some of the most critical issues of*

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*today and  
coming  
decades,  
including a  
wealth of  
integrated  
coverage of  
energy and the  
environment, b  
iomedical/bioe  
ngineering, as  
well as*

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*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 text  
provides  
balanced  
coverage of  
the basic  
concepts of  
thermodynamics  
and heat  
transfer.*

*Together with*

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*illustrations,*

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*writing style,*

*and accessible*

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*an ideal text*

*for an*

*introductory*

*thermal*

*science course*

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*Thermodynamics*

, *An*

*Engineering*

*Approach,*

*covers the*

*basic*

*principles of*

*thermodynamics*



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*while*

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*presenting a*

*wealth of real-  
world*

*engineering*

*examples, so*

*students get a*

*feel for how*

*thermodynamics*

*is applied in*

*engineering*

*practice. This*

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*text helps  
students  
develop an  
intuitive  
understanding  
by emphasizing  
the physics  
and physical  
arguments.*

*Cengel and  
Boles explore  
the various*

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*facets of  
thermodynamics  
through  
careful  
explanations  
of concepts  
and use of  
numerous  
practical  
examples and  
figures,  
having*

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*students  
develop  
necessary  
skills to  
bridge the gap  
between  
knowledge, and  
the confidence  
to properly  
apply their  
knowledge. The  
9th edition*

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*offers new  
video and  
applet tools  
inside  
Connect.  
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Education's  
Connect, is  
also available  
as an  
optional, add  
on item.*

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*Connect is the  
only*

*integrated*

*learning*

*system that*

*empowers*

*students by*

*continuously*

*adapting to*

*deliver*

*precisely what*

*they need,*

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*when they need  
it, how they  
need it, so  
that class  
time is more  
effective.*

*Connect allows  
the professor  
to assign  
homework,  
quizzes, and  
tests easily*

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*and*  
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*automatically  
grades and  
records the  
scores of the  
student's  
work. Problems  
are randomized  
to prevent  
sharing of  
answers and may  
also have a*



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*"multi-step  
solution"*

*which helps  
move the  
students'  
learning along  
if they  
experience  
difficulty.*

*This book is a  
unique, multid  
isciplinary*

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*effort to  
apply rigorous  
thermodynamics  
fundamentals,  
a disciplined  
scholarly  
approach, to  
problems of su  
stainability,  
energy, and  
resource uses.*

**Applying**

Page 18/215

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*thermodynamic  
thinking to  
problems of  
sustainable  
behavior is a  
significant  
advantage in  
bringing order  
to ill-defined  
questions with  
a great  
variety of*

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*proposed solutions, some of which are more destructive than the original problem. The articles are pitched at a level accessible to*

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***advanced  
undergraduates  
and graduate  
students in  
courses on sus  
tainability,  
sustainable  
engineering,  
industrial  
ecology,  
sustainable  
manufacturing,***

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*and green*  
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*engineering.*

*The timeliness  
of the topic,  
and the urgent  
need for  
solutions make  
this book  
attractive to  
general  
readers and  
specialist*

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*researchers as  
well. Top*

*international  
figures from  
many*

*disciplines,*

*including*

*engineers,*

*ecologists,*

*economists,*

*physicists,*

*chemists,*

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*policy experts  
and industrial  
ecologists  
among others  
make up the  
impressive  
list of  
contributors.*

*Global Warming  
Efficiency and  
Sustainability  
in the Energy*



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and Chemical  
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Industries

*Thermodynamics  
and the  
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Resources  
Thermodynamics  
in Nuclear  
Power Plant  
Systems  
Solutions  
Manual to*

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***Accompany  
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of Engineering  
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the limited academic  
version of  
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equation solver(EES)  
with homework  
problems.  
Energy efficiency,***

**environmental protection, and processing waste management continue to attract increased attention in the food processing industry. As with other industrial sectors, reducing costs while also reducing environmental**

**impact and  
improving overall  
sustainability is  
becoming an  
important part of the  
business process.  
Providing practical  
guidance, Energy  
Efficiency and  
Management in Food  
Processing Facilities  
explores energy  
efficiency**

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**technologies,  
emerging energy  
efficient processes,  
and methods for  
converting food  
processing wastes  
into energy.**

**Organized around  
five central themes,  
the book explores:  
Fundamentals of  
energy conservation,  
analysis, and**

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conservation**

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applied to the food  
processing industry  
Energy efficiency  
and conservations in  
current food  
processing systems  
Emerging systems  
Energy conversion  
technologies for  
utilization of food**

**Techniques that  
Improve the Bottom  
Line The lack of  
information on  
energy conservation  
and conversion  
technologies has  
been a major barrier  
to energy efficiency  
improvement and the  
utilization of**

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**Thermodynamic  
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**processing wastes in  
the food processing  
industry. With  
coverage ranging  
from basic theory to  
traditional and  
alternative energy,  
this book provides  
the required skill set  
for the increased  
energy conservation  
and reduced  
consumption that**



**will positively impact  
the bottom line in  
food processing  
facilities.**

**Thermodynamics,  
An Engineering  
Approach, eighth  
edition, covers the  
basic principles of  
thermodynamics  
while presenting a  
wealth of real-world  
engineering**

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**examples so students  
get a feel for how  
thermodynamics is  
applied in  
engineering practice.  
This text helps  
students develop an  
intuitive  
understanding by  
emphasizing the  
physics and physical  
arguments. Cengel  
and Boles explore the**

**various facets of  
thermodynamics  
through careful  
explanations of  
concepts and use of  
numerous practical  
examples and  
figures, having  
students develop  
necessary skills to  
bridge the gap  
between knowledge  
and the confidence to**

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**properly apply their  
knowledge. McGraw-  
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Connect with the  
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precisely what they  
need, when they need  
it, how they need it,  
so that your class  
time is more  
engaging and  
effective. Problems  
are graded  
automatically, and  
the results are  
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performance - by  
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relation to the class  
overall with detailed  
grade reports.**

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detailed examination  
of how two key  
concerns in many  
communities across  
the globe- power and**

**water- can be  
simultaneously  
addressed through  
the coupling of  
Concentrating Solar  
Power and  
Desalination  
(CSP+D) plants. It  
undertakes a  
technological and  
economic evaluation  
of the integration of  
Multi-effect**

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**Distillation Plants  
into CSP plants  
based on Parabolic  
Trough solar  
collectors (PT-  
CSP+MED), as  
compared to  
independent water  
and power  
production through  
Reverse Osmosis  
unit connection to a  
CSP plant**



**(CSP+RO). Through this compare and contrast method of analysis, the author establishes guidelines to assist readers in identifying cases wherein PT-CSP+MED systems provide greater benefits from a thermodynamic and**

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**economic point of view. The text outlines efficiencies and challenges derived from the combination of PT-CSP power generation with four different desalination plant scenarios, beginning with a description of the equations used in**

**the modeling and validation of a pilot MED plant and followed by detailed thermodynamic analysis of several currently operating CSP+D systems. Comparative thermodynamic assessments are based on a sensitivity analysis from which**

**the overall efficiency of the cogeneration system is determined. The author outlines all the equations used for the modeling of each component and includes 97 comparative tables obtained from the sensitivity analysis, showing the**

**variation of the overall thermal efficiency of the CSP+D as a function of fundamental parameters of the cogeneration cycle, such as the specific electric consumption of the desalination plants, and the turbine outlet temperature of the**

**power cycle. These findings are then placed in practical context through a complete thermo-economic analysis, which is carried out for two specific locations in the Middle East and Europe in order to identify the most practically and**

**economically viable  
CSP+D system in  
each region as  
informed by actual  
operating conditions,  
meteorological data  
and real cost figures  
for each location.**

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Polymer Electrolyte  
Membrane (PEM)  
fuel cells convert  
chemical energy in  
hydrogen into



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electrical energy  
with water as the  
only by-product.

Thus, PEM fuel cells  
hold great promise  
to reduce both  
pollutant emissions  
and dependency on  
fossil fuels,  
especially for transp  
ortation—passenger  
cars, utility vehicles,  
and buses—and

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small-scale stationary and portable power generators. But one of the greatest challenges to realizing the high efficiency and zero emissions potential of PEM fuel cells technology is heat and water management. This

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book provides an introduction to the essential concepts for effective thermal and water management in PEM fuel cells and an assessment on the current status of fundamental research in this field. The book offers you: • An

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overview of current energy and environmental challenges and their imperatives for the development of renewable energy resources, including discussion of the role of PEM fuel cells in addressing these issues; •

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principles pertaining  
to PEM fuel cells,  
including  
thermodynamics,  
electrochemical  
reaction kinetics,  
flow, heat and mass  
transfer; and •

Descriptions and  
discussions of water  
transport and  
management within  
a PEM fuel cell,

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including vapor- and liquid-phase water removal from the electrodes, the effects of two-phase flow, and solid water or ice dynamics and removal, particularly the specialized case of starting a PEM fuel cell at sub-freezing temperatures (cold

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start) and the  
various processes  
related to ice  
formation.

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The ninth edition of  
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enable the  
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by Engineering and  
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understandable  
approach, this  
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thermodynamics  
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explores renewable  
energy generation,  
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basic  
thermophysics  
and transport  
principles  
that underlie  
the mechanisms  
of  
condensation  
and  
vaporization  
processes. The  
text has been

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thoroughly  
updated to  
reflect recent  
innovations in  
research and  
to strengthen  
the  
fundamental  
focus of the  
first edition.  
Starting with  
an integrated

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presentation  
of the  
nonequilibrium  
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associated  
with  
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microscale  
thermophysics  
of boiling and  
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tools to  
create new  
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helpful  
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practicing  
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studying the  
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physics of  
nucleation,  
boiling and  
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advances in  
fuel cell  
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Due to the  
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software and multimedia have become essential parts of engineering education. Software integration with various media such as graphics,



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sound, video  
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is providing  
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modern  
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should contain  
both the basic  
theory and

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principles,  
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Often  
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Computerised  
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for innovative  
power

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generation  
systems due to  
deregulation,  
co-generation,  
unstable fuel  
costs and  
concern for  
global  
warming.

Professor  
Kenneth Forbus  
of the

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computer  
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education  
department at  
Northwestern  
University has  
developed  
ideal  
intelligent  
computer  
software for  
thermodynamic

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creates a  
virtual  
laboratory  
where students  
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efficiently  
learn the  
concepts of th  
ermodynamics,  
and allows  
systems to be  
analyzed and  
designed in a  
simulated,  
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the user makes  
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program can  
provide a  
documented,  
case study  
that recounts  
how engineers  
have resolved  
similar  
problems in  
real life  
situations.

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learning to  
apply thermody  
namics, and  
relates what  
the user sees  
on the  
computer  
screen to the  
design of  
actual

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grounding in  
both the  
theory and  
practice of th  
ermodynamics.  
The coverage  
is compact  
without  
sacrificing  
necessary  
theoretical  
rigor.

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Emphasis  
throughout is  
on the  
applications  
of the theory  
to actual  
processes and  
power cycles.  
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