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***Fundamentals Of
Engineering
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"This comprehensive text

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on the basics of heat and mass transfer provides a well-balanced treatment of theory and mathematical and empirical methods used for solving a variety of engineering problems. The

***book helps students develop
an intuitive and practical
under-standing of the
processes by emphasizing
the underlying physical
phenomena involved.
Focusing on the***

***requirement to clearly
explain the essential
fundamentals and impart
the art of problem-solving,
the text is written to meet
the needs of undergraduate
students in mechanical***

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***engineering, production
engineering, industrial
engineering, auto-mobile
engineering, aeronautical
engineering, chemical
engineering, and
biotechnology.***

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***Specifically designed as an
introduction to the exciting
world of engineering,
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***students to become
engineers and prepares
them with a solid
foundation in the
fundamental principles and
physical laws. The book
begins with a discovery of***

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what engineers do as well as an inside look into the various areas of specialization. An explanation on good study habits and what it takes to succeed is included as well

***as an introduction to design
and problem solving,
communication, and ethics.
Once this foundation is
established, the book moves
on to the basic physical
concepts and laws that***

***students will encounter
regularly. The framework of
this text teaches students
that engineers apply
physical and chemical laws
and principles as well as
mathematics to design,***

test, and supervise the production of millions of parts, products, and services that people use every day. By gaining problem solving skills and an understanding of

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***fundamental principles,
students are on their way to
becoming analytical, detail-
oriented, and creative
engineers. Important
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***Designed as an
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textbook in Chemical***

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Engineering, this student-friendly, thoroughly classroom tested book, now in its second edition, continues to provide an in-depth analysis of chemical engineering

thermodynamics. The book has been so organized that it gives comprehensive coverage of basic concepts and applications of the laws of thermodynamics in the initial chapters, while the

later chapters focus at length on important areas of study falling under the realm of chemical thermodynamics. The reader is thus introduced to a thorough analysis of the

fundamental laws of thermodynamics as well as their applications to practical situations. This is followed by a detailed discussion on relationships among thermodynamic

***properties and an
exhaustive treatment on the
thermodynamic properties
of solutions. The role of
phase equilibrium
thermodynamics in design,
analysis, and operation of***

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chemical separation methods is also deftly dealt with. Finally, the chemical reaction equilibria are skillfully explained. Besides numerous illustrations, the book contains over 200

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***worked examples, over 400
exercise problems (all with
answers) and several
objective-type questions,
which enable students to
gain an in-depth
understanding of the***

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***concepts and theory
discussed. The book will
also be a useful text for
students pursuing courses
in chemical engineering-
related branches such as
polymer engineering,***

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***petroleum engineering, and
safety and environmental
engineering. New to This
Edition • More Example
Problems and Exercise
Questions in each chapter •
Updated section on***

***Vapour-Liquid Equilibrium
in Chapter 8 to highlight
the significance of
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thermodynamics, and prepares students to effectively apply thermodynamics in the practice of engineering. This edition is revised with additional examples and end-of-chapter problems to increase student

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(Incropera), this book introduces thermal engineering using a systems focus, introduces structured problem-solving techniques, and provides applications of interest to all engineers.

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*statements have been
extracted from each equation.
These and other important
statements were numbered
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in an index titled "Hilal and
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are included to help the reader navigate through the subject with ease. Key features: General Aviation and UAV Propulsion Systems are presented in a new chapter Discusses Ultra-High Bypass and Geared Turbofan engines Presents alternative drop-

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Chemical engineers face the challenge of learning the difficult concept and application of entropy and the 2nd Law of Thermodynamics. By following a visual approach and offering qualitative discussions of the

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role of molecular interactions,
Koretsky helps them understand and
visualize thermodynamics.

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material is applied in the real world.
Expanded coverage includes
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Equation of State approach for both

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liquid and vapor phases in VLE, and the practical side of the 2nd Law. Engineers will then be able to use this resource as the basis for more advanced concepts.

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