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Known for their accuracy, clarity, and dependability, these texts have provided a solid foundation of mechanics principles for more than 60 years. Now in their eighth editions, they continue to help students develop their problem-solving skills with an extensive variety of engaging problems related to engineering design. In addition to new homework problems, the text includes a number of helpful sample problems. To help students build necessary visualization and problem-solving skills, the text strongly emphasizes drawing free-body diagrams, one of the most important skills needed to solve mechanics problems.
Incropera’s Principles of Heat & Mass Transfer
Theodore L. Bergman, Adrienne S. Lavine, Frank P. Incropera and David P. DeWitt

This text has been the gold standard of heat transfer pedagogy for many decades, with a commitment to continuous improvement by four authors’ with more than 150 years of combined experience in heat transfer education, research and practice. Applying the rigorous and systematic problem-solving methodology that this text pioneered, an abundance of examples and problems reveal the richness and beauty of the discipline. This edition makes heat and mass transfer more approachable by giving additional emphasis to fundamental concepts, while highlighting the relevance of two of today’s most critical issues: energy and the environment.

Moran’s Principles of Engineering Thermodynamics
Michael J. Moran, Howard N. Shapiro, Daisie D. Boettner and Margaret B. Bailey

This text continues to set the standard for teaching students how to be effective problem solvers, emphasizing the authors’ signature methodologies that have taught over a half million students worldwide. This new edition provides a student-friendly approach that emphasizes the relevance of thermodynamics principles to some of the most critical issues of today and coming decades, including a wealth of integrated coverage of energy and the environment, biomedical/bioengineering, as well as emerging technologies.

Felder’s Elementary Principles of Chemical Processes
4th Edition
Richard M. Felder, Ronald W. Rousseau and Lisa G. Bullard

Felder’s Elementary Principles of Chemical Processes prepares students to formulate and solve material and energy balances in chemical process systems and lays the foundation for subsequent courses in chemical engineering. The text provides a realistic, informative, and positive introduction to the practice of chemical engineering.

Engineering Fluid Mechanics, 11th Edition
Donald F. Elger, Barbara A. LeBret, Clayton T. Crowe and John A. Roberson

Written by dedicated educators who are also real-life engineers with a passion for the discipline, this text carefully guides students from fundamental fluid mechanics concepts to real-world engineering applications. The Eleventh Edition and its accompanying resources deliver a powerful learning solution that helps students develop a strong conceptual understanding of fluid flow phenomena through clear physical descriptions, relevant and engaging photographs, illustrations, and a variety of fully worked example problems.
**Fundamentals of Materials Science and Engineering – An Integrated Approach**

*5TH EDITION*

William D. Callister, Jr. and David G. Rethwisch

Taking an integrated approach to the sequence of topics – one specific structure, characteristic, or property type is covered in turn for all three basic material types: metals, ceramics, and polymeric materials. This presentation permits the early introduction of non-metals and supports the engineer’s role in choosing materials based upon their characteristics. Using clear, concise terminology that is familiar to students, *Fundamentals* presents material at an appropriate level for both student comprehension and instructors who may not have a materials background.

**Callister’s Materials Science and Engineering**

William D. Callister, Jr. and David G. Rethwisch

Building on the extraordinary success of previous editions, *Callister’s Materials Science and Engineering* continues to promote student understanding of the three primary types of materials (metals, ceramics, and polymers) and composites, as well as the relationships that exist between the structural elements of materials and their properties.

**Groover’s Principles of Modern Manufacturing**

Mikell P. Groover

Designed for a first course or two-course sequence in Manufacturing in the Mechanical, Industrial, and Manufacturing Engineering curricula. The book’s modern approach is based on balanced coverage of the basic engineering materials, the inclusion of recently developed manufacturing processes and comprehensive coverage of electronics manufacturing technologies. The quantitative focus of the text is displayed in its emphasis on manufacturing science and its greater use of mathematical models and quantitative end-of-chapter problems.

**DeGarmo’s Materials & Processes in Manufacturing**

J. T. Black and Ronald A. Kohser

Continuing a long and distinguished tradition of exceedingly clear presentation and a highly practical approach to materials and processes, this text presents mathematical models and analytical equations only when they enhance the basic understanding of the material. Updated to reflect all current practices, standards, and materials, this edition has new coverage of additive manufacturing, lean engineering, and processes related to ceramics, polymers, and plastics.
Montgomery’s Design and Analysis of Experiments
Douglas C. Montgomery
This text continues to help students in engineering, business, and statistics to design and analyse experiments for improving the quality, efficiency and performance of working systems.
Continuing to place a strong focus on the use of the computer, this edition includes software examples taken from the four most dominant programs in the field: Design-Expert, Minitab, JMP, and SAS.

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Montgomery’s Applied Statistics and Probability for Engineers
Douglas C. Montgomery and George C. Runger
A practical approach oriented to engineering as well as chemical and physical sciences. Students learn how the material will be relevant in their careers through the integration throughout of unique problem sets that reflect realistic applications and situations. Applied Statistics is suitable for either a one- or two-term course in probability and statistics.

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Norman S. Nise
This text takes a practical approach, presenting clear and complete explanations. Real world examples demonstrate the analysis and design process, while helpful skill assessment exercises, numerous in-chapter examples, review questions and problems reinforce key concepts. A new progressive problem, a solar energy parabolic trough collector, is featured at the end of each chapter. Ten new simulated control lab experiments now complement the online resources that accompany the text.

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Dorf’s Introduction to Electric Circuits
Richard C. Dorf and James A. Svoboda
Known for its clear problem-solving methodology and its emphasis on design, as well as the quality and quantity of its problem sets, this text will help students to “think like engineers.” Abundant design examples, design problems, and the “How Can We Check” feature illustrate the text’s focus on design. This new edition continues the expanded use of problem-solving software such as PSpice and MATLAB.

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Silberschatz’s Operating System Concepts
Abraham Silberschatz, Peter B. Galvin and Greg Gagne

Operating System Concepts continues to provide a solid theoretical foundation for understanding operating systems. The text includes content to bridge the gap between concepts and actual implementations. End-of-chapter problems, exercises, review questions, and programming exercises help to further reinforce important concepts. A Virtual Machine provides interactive exercises to help engage students with the material.

Gillenson’s Fundamentals of Database Management Systems
Mark L. Gillenson

This lean, focused text concentrates on giving students a clear understanding of database fundamentals while providing a broad survey of all the major topics of the field. The result is a text that is easily covered in one semester, and that only includes topics relevant to the database course.

The author writes in a clear, friendly style that progresses step-by-step through all of the major database topics. Each chapter begins with a story about a real company’s database application, and is packed with examples. When students finish the text, they will be able to immediately apply what they’ve learned in business.

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Mann’s Introductory Statistics
Prem S. Mann

This text is written for a one or two semester first course in applied statistics and is intended for students who do not have a strong background in mathematics. The only prerequisite is knowledge of elementary algebra. *Introductory Statistics* is known for its realistic examples and exercises, clarity and brevity of presentation, and soundness of pedagogical approach.

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Boyce’s Elementary Differential Equations and Boundary Value Problems
William E. Boyce

This text combines a sound and accurate (but not abstract) exposition of the elementary theory of differential equations with considerable material on methods of solution, analysis, and approximation that have proved useful in a wide variety of applications.

The program is primarily intended for undergraduate students of mathematics, science, or engineering, who typically take a course on differential equations during their first or second year of study. The main prerequisite for engaging with the program is a working knowledge of calculus, gained from a normal two or three semester course sequence or its equivalent. Some familiarity with matrices will also be helpful in the chapters on systems of differential equations.

ISBN: 9781119382874
Print £51.69 / €62.10 / $65.00 | May 2017
Anton’s Calculus Early Transcendentals
Howard Anton, Irl C. Bivens and Stephen Davis

This text strives to increase student comprehension and conceptual understanding through a balance between rigor and clarity of explanations; sound mathematics; and excellent exercises, applications, and examples. Anton pedagogically approaches Calculus through the Rule of Four, presenting concepts from the verbal, algebraic, visual, and numerical points of view.

Hughes-Hallett’s Applied Calculus
Deborah Hughes-Hallett, et al

Applied Calculus is praised for the creative and varied conceptual and modeling problems which motivate and challenge students. This text exhibits the same strengths from earlier editions including the “Rule of Four,” an emphasis on concepts and modeling, exposition that students can read and understand and a flexible approach to technology. Updated data and fresh applications throughout the book are designed to build student confidence with basic concepts and to reinforce skills. A Pre-test is included for students whose skills may need a refresher prior to taking the course.

Kreyszig’s Advanced Engineering Mathematics
Erwin Kreyszig

This market-leading text is known for its comprehensive coverage, careful and correct mathematics, outstanding exercises, and self-contained subject matter parts for maximum flexibility. The new edition continues with the tradition of providing instructors and students with a comprehensive and up-to-date resource for teaching and learning engineering mathematics, that is, applied mathematics for engineers and physicists, mathematicians and computer scientists, as well as members of other disciplines.

Boas’ Mathematical Methods in the Physical Sciences
Mary L. Boas

This text provides a comprehensive introduction to the areas of mathematical physics. It combines all the essential math concepts into one compact, clearly written reference.

This book is intended for students who have had a two-semester or three-semester introductory calculus course. Its purpose is to help students develop, in a short time, a basic competence in each of the many areas of mathematics needed in advanced courses in physics, chemistry, and engineering. Students are given sufficient depth to gain a solid foundation, at the same time, they are not overwhelmed with detailed proofs that are more appropriate for students of mathematics.
Cutnell and Johnson has been the #1 text in the algebra-based physics market for over 20 years. This new edition continues that tradition by providing superior support students need to facilitate a deeper level of conceptual understanding, improve their reasoning skills and see the relevance of physics to their lives and future careers.

Kittel's Introduction to Solid State Physics
Charles Kittel

Since the publication of the first edition over 50 years ago, Introduction to Solid State Physics has been the standard solid state physics text for physics majors. The author's goal from the beginning has been to write a book that is accessible to undergraduate and consistently teachable. The emphasis in the book has always been on physics rather than formal mathematics. With each new edition, the author has attempted to add important new developments in the field without sacrificing the book’s accessibility and teachability.
A central theme of the authors’ approach to organic chemistry is to emphasize the relationship between structure and reactivity. To accomplish this, the content is organized in a way that combines the most useful features of a functional group approach with one largely based on reaction mechanisms. The authors’ philosophy is to emphasize mechanisms and their common aspects as often as possible, and at the same time, use the unifying features of functional groups as the basis for most chapters.

In an attempt to highlight the relevance of the material to students, the authors place a strong emphasis on showing the interrelationship between organic chemistry and other areas of science, particularly the biological and health sciences. The text illustrates the use of organic chemistry as a tool in these sciences; it also stresses the organic compounds, both natural and synthetic, that surround us in everyday life: in pharmaceuticals, plastics, fibers, agrochemicals, surface coatings, toiletry preparations and cosmetics, food additives, adhesives, and elastomers. Most suited for a one semester organic chemistry course.

In this new edition, Dr. David Klein builds on the phenomenal success of the first two editions, which presented his unique skills-based approach to learning organic chemistry. Dr. Klein’s skills-based approach includes all of the concepts typically covered in an organic chemistry textbook, and places special emphasis on skills development to support these concepts. This emphasis on skills development in unique SkillBuilder examples provides extensive opportunities for two-semester Organic Chemistry students to develop proficiency in the key skills necessary to succeed in organic chemistry.
**Tortora’s Principles of Anatomy & Physiology**  
*Gerard J. Tortora and Bryan H. Derrickson*

This phenomenally successful text continues to set the discipline standard with this new edition, offering a combination of exceptional content and outstanding visuals for a rich and comprehensive classroom experience. Paired with a comprehensive Study Guide, the package offers a thoughtfully designed course for Anatomy and Physiology.

**Voet’s Principles of Biochemistry**  
*Donald Voet, Charlotte W. Pratt and Judith G. Voet*

Principles of Biochemistry addresses the enormous advances in biochemistry, particularly in the areas of structural biology and bioinformatics, by providing a solid biochemical foundation that is rooted in chemistry to prepare students for the scientific challenges of the future. While continuing in its tradition of presenting complete and balanced coverage that is clearly written and relevant to human health and disease, this new edition includes new pedagogy and enhanced visuals that provide a pathway for student learning.

**Pratt’s Essential Biochemistry**  
*Charlotte W. Pratt and Kathleen Cornerly*

Essential Biochemistry is comprised of biology, pre-med and allied health topics and presents a broad, but not overwhelming, base of biochemical coverage that focuses on the chemistry behind biology. Furthermore, it relates the chemical concepts that scaffold the biology of biochemistry, providing practical knowledge as well as many problem-solving opportunities to hone skills. Key Concepts and Concept Review features help students to identify and review important takeaways in each section.

**Devlin’s Textbook of Biochemistry with Clinical Correlations**  
*Thomas M. Devlin*

This book presents a clear and precise discussion of the biochemistry of eukaryotic cells, particularly those of mammalian tissues, relates biochemical events at a cellular level to the subsequent physiological processes in the whole animal, and cites examples of abnormal biochemical processes in human disease. The organization and content are tied together to provide students with the complete picture of biochemistry and how it relates to human diseases.
Karp's Cell Biology

Gerald Karp, Janet Iwasa and Wallace Marshall

Karp's Cell Biology continues to be the best book in the market at connecting key concepts to the experiments that reveal how we know what we know in the world of Cell Biology. This classic text explores core concepts in considerable depth, often adding experimental detail. It is written in an inviting style and at mid-length, to assist students in managing the plethora of details encountered in the Cell Biology course.

Accounting, Economics and Finance

Weygandt's Accounting Principles

Jerry J. Weygandt, Paul D. Kimmel and Donald E. Kieso

Accounting Principles by Weygandt, Kimmel, and Kieso continues to provide students with a trusted and clear introduction to fundamental accounting concepts, which has made this best-selling text so popular. Helping students get the most out of their accounting course by making practice simple, the new edition continues to present the accounting cycle from a sole proprietor perspective, whilst providing the latest IFRS integration throughout (separate references to GAAP are made at the end of each chapter for courses where needed). To maximize student achievement a plethora of additional teaching and learning resources will be available including self-tests, exercises, templates, videos and more.

Weygandt's Managerial Accounting: Tools for Business Decision Making

Jerry J. Weygandt, Paul D. Kimmel and Donald E. Kieso

Managerial Accounting provides students with a clear introduction to fundamental managerial accounting concepts. This new edition helps students get the most out of their accounting course by making practice simple. Self-guided practice allows students to check their knowledge of accounting concepts, skills, and problem solving techniques. This is a best-selling text ideal for a one semester undergraduate Managerial Accounting Course that focuses on teaching students the core concepts.
Damodaran’s Applied Corporate Finance
Aswath Damodaran

This readable text provides the practical advice students and practitioners need rather than a sole concentration on debate theory, assumptions, or models.

Like no other text of its kind, Applied Corporate Finance applies corporate finance to real companies and contains real-world core companies to study and follow. Business decisions are classified for students into three groups: investment, financing, and dividend decisions.

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