

Polynomial Review An X A Mr Dickson

The aim of this book is to present basic and advanced mathematical concepts using the graphical and traditional calculator, the TI 92 and the TI 89. These mathematical concepts are commonly taught at some stage of the first three years of college curricula; Analysis (approximations, convergence, differential equations, etc.) Linear Algebra (orthogonality, reduction, etc.). The idea behind this book is totally original and will teach the reader not only all the necessary theorems and examples, but illustrations of the calculator screens and the programs (short versions) will allow the reader to visualize these new concepts directly from the book, or on the calculator, leading to a better understanding through "seeing" and "touching" the mathematical lesson being taught.

Larson IS student success. ELEMENTARY AND INTERMEDIATE ALGEBRA: ALGEBRA WITHIN REACH owes its success to the hallmark features for which the Larson team is known: learning by example, a straightforward and accessible writing style, emphasis on visualization through the use of graphs to reinforce algebraic and numeric solutions and to interpret data, and comprehensive exercise sets. These pedagogical features are carefully coordinated to ensure that students are better able to make connections between mathematical

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concepts and understand the content. With a bright, appealing design, the new Sixth Edition builds on the Larson tradition of guided learning by incorporating a comprehensive range of student success materials to help develop students' proficiency and conceptual understanding of algebra. The text also continues coverage and integration of geometry in examples and exercises. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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First published in 2001. The classical Fourier transform is one of the most widely used mathematical tools in engineering. However, few engineers know that extensions of harmonic analysis to functions on groups holds great potential for solving problems in robotics, image analysis, mechanics, and other areas. For those that may be aware of its potential value, there is still no place they can turn to for a clear presentation of the background they need to apply the concept to engineering problems. Engineering Applications of Noncommutative Harmonic Analysis brings this powerful tool to the engineering world. Written specifically for engineers and computer scientists, it offers a practical treatment of harmonic analysis in the context of particular Lie groups (rotation and Euclidean motion). It

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presents only a limited number of proofs, focusing instead on providing a review of the fundamental mathematical results unknown to most engineers and detailed discussions of specific applications. Advances in pure mathematics can lead to very tangible advances in engineering, but only if they are available and accessible to engineers. Engineering Applications of Noncommutative Harmonic Analysis provides the means for adding this valuable and effective technique to the engineer's toolbox.

ALGEBRA AND TRIGONOMETRY: REAL MATHEMATICS, REAL PEOPLE, 7th Edition, is an ideal student and instructor resource for courses that require the use of a graphing calculator. The quality and quantity of the exercises, combined with interesting applications and innovative resources, make teaching easier and help students succeed. Retaining the series' emphasis on student support, selected examples throughout the text include notations directing students to previous sections to review concepts and skills needed to master the material at hand. The book also achieves accessibility through careful writing and design—including examples with detailed solutions that begin and end on the same page, which maximizes readability. Similarly, side-by-side solutions show algebraic, graphical, and numerical representations of the mathematics and support a variety of learning styles. Reflecting its subtitle, this significant revision

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focuses more than ever on showing students the relevance of mathematics in their lives and future careers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Larson's ALGEBRA AND TRIGONOMETRY is ideal for a two-term course and is known for delivering sound, consistently structured explanations and carefully written exercises of the mathematical concepts. With the Ninth Edition, the author continues to revolutionize the way students learn material by incorporating more real-world applications, on-going review and innovative technology. How Do You See It? exercises give you practice applying the concepts, and new Summarize features, Checkpoint problems and a Companion Website reinforce understanding of the skill sets to help students better prepare for tests. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This book is for instructors who think that most calculus textbooks are too long. In writing the book, James Stewart asked himself: What is essential for a three-semester calculus course for scientists and engineers? ESSENTIAL CALCULUS: EARLY TRANSCENDENTALS, Second Edition, offers a concise approach to teaching calculus that focuses on major concepts, and supports those concepts

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with precise definitions, patient explanations, and carefully graded problems. The book is only 900 pages--two-thirds the size of Stewart's other calculus texts, and yet it contains almost all of the same topics. The author achieved this relative brevity primarily by condensing the exposition and by putting some of the features on the book's website, www.StewartCalculus.com. Despite the more compact size, the book has a modern flavor, covering technology and incorporating material to promote conceptual understanding, though not as prominently as in Stewart's other books. ESSENTIAL CALCULUS: EARLY TRANSCENDENTALS features the same attention to detail, eye for innovation, and meticulous accuracy that have made Stewart's textbooks the best-selling calculus texts in the world. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. James Stewart's CALCULUS: EARLY TRANSCENDENTALS texts are widely renowned for their mathematical precision and accuracy, clarity of exposition, and outstanding examples and problem sets. Millions of students worldwide have explored calculus through Stewart's trademark style, while instructors have turned to his approach time and time again. In the Eighth Edition of SINGLE VARIABLE CALCULUS: EARLY TRANSCENDENTALS, Stewart continues to set the standard for the course while adding carefully revised content. The patient

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explanations, superb exercises, focus on problem solving, and carefully graded problem sets that have made Stewart's texts best-sellers continue to provide a strong foundation for the Eighth Edition. From the most unprepared student to the most mathematically gifted, Stewart's writing and presentation serve to enhance understanding and build confidence. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

- Chapter-wise&Topic-wisepresentation
- Chapter Objectives-A sneak peek into the chapter
- Mind Map:A single page snapshot of the entire chapter
- Quick Review: Concept-based study material
- Tips & Tricks:Useful guidelines for attempting each question perfectly
- Some Commonly Made Errors:Most common and unidentified errors made by students discussed
- Expert Advice-Oswaal Expert Advice on how to score more!
- Oswaal QR Codes- For Quick Revision on your Mobile Phones & Tablets

COLLEGE ALGEBRA: REAL MATHEMATICS, REAL PEOPLE is an ideal student and instructor resource for courses that require the use of a graphing calculator. The quality and quantity of the exercises, combined with interesting applications and innovative resources, make teaching easier and help students succeed. Retaining the series' emphasis on student support, selected examples

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throughout the text include notations directing students to previous sections to review concepts and skills needed to master the material at hand. The book also achieves accessibility through careful writing and design—including examples with detailed solutions that begin and end on the same page, which maximizes readability. Similarly, side-by-side solutions show algebraic, graphical, and numerical representations of the mathematics and support a variety of learning styles. Reflecting its subtitle, this significant revision focuses more than ever on showing students the relevance of mathematics in their lives and future careers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Larson IS student success. ELEMENTARY ALGEBRA: ALGEBRA WITHIN REACH owes its success to the hallmark features for which the Larson team is known: learning by example, a straightforward and accessible writing style, emphasis on visualization through the use of graphs to reinforce algebraic and numeric solutions and to interpret data, and comprehensive exercise sets. These pedagogical features are carefully coordinated to ensure that students are better able to make connections between mathematical concepts and understand the content. With a bright, appealing design, the new Sixth Edition builds on the Larson tradition of guided learning by incorporating a comprehensive range of

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student success materials to help develop students' proficiency and conceptual understanding of algebra. The text also continues coverage and integration of geometry in examples and exercises. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Now readers can focus on the development, implementation, and application of modern DSP techniques with the new DIGITAL SIGNAL PROCESSING USING MATLAB, 3E. Written using an engaging informal style, this edition inspires readers to become actively involved with each topic. Every chapter starts with a motivational section that highlights practical examples and challenges that readers can solve using techniques covered in the chapter. Each chapter concludes with a detailed case study example, chapter summary, and a generous selection of practical problems cross-referenced to sections within the chapter. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This market-leading text continues to provide students and instructors with sound, consistently structured explanations of the mathematical concepts. Designed for a one-term course that prepares students for further study in mathematics, the new ninth edition retains the features that have always made

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COLLEGE ALGEBRA a complete solution for both students and instructors: interesting applications, pedagogically effective design, and innovative technology combined with an abundance of carefully developed examples and exercises. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Calculus of One Variable, Second Edition presents the essential topics in the study of the techniques and theorems of calculus. The book provides a comprehensive introduction to calculus. It contains examples, exercises, the history and development of calculus, and various applications. Some of the topics discussed in the text include the concept of limits, one-variable theory, the derivatives of all six trigonometric functions, exponential and logarithmic functions, and infinite series. This textbook is intended for use by college students.

This series has been developed specifically for the Cambridge International AS & A Level Mathematics (9709) syllabus to be examined from 2020. Cambridge International AS & A Level Mathematics: Pure Mathematics 2 & 3 matches the corresponding units of the syllabus. It clearly indicates materials required for P3 study only, and contains materials on topics such as logarithmic and exponential functions, trigonometry, differentiation, integration, numerical solutions of

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equations, vectors and complex numbers. This coursebook contains a variety of features including recap sections for students to check their prior knowledge, detailed explanations and worked examples, end-of-chapter and cross-topic review exercises and 'Explore' tasks to encourage deeper thinking around mathematical concepts. Answers to coursebook questions are at the back of the book.

This book describes the efficient implementation of public-key cryptography (PKC) to address the security challenges of massive amounts of information generated by the vast network of connected devices, ranging from tiny Radio Frequency Identification (RFID) tags to powerful desktop computers. It investigates implementation aspects of post quantum PKC and homomorphic encryption schemes whose security is based on the hardness of the ring-learning with error (LWE) problem. The work includes designing an FPGA-based accelerator to speed up computation on encrypted data in the cloud computer. It also proposes a more practical scheme that uses a special module called decryption box to assist homomorphic function evaluation, roughly 20 times faster than the implementation without this module.

Larson's market-leading text, PRECALCULUS is known for delivering sound, consistently structured explanations and exercises of mathematical concepts to

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expertly prepare students for the study of calculus. With the ninth edition, the author continues to revolutionize the way students learn material by incorporating more real-world applications, ongoing review, and innovative technology. How Do You See It? exercises give students practice applying the concepts, and new Summarize features, Checkpoint problems, and a Companion Website reinforce understanding of the skill sets to help students better prepare for tests. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Larson's PRECALCULUS WITH LIMITS is known for delivering the same sound, consistently structured explanations and exercises of mathematical concepts as the market-leading PRECALCULUS, Ninth Edition, with a laser focus on preparing students for calculus. In LIMITS, the author includes a brief algebra review to the core precalculus topics along with coverage of analytic geometry in three dimensions and an introduction to concepts covered in calculus. With the third edition, Larson continues to revolutionize the way students learn material by incorporating more real-world applications, ongoing review, and innovative technology. How Do You See It? exercises give students practice applying the concepts, and new Summarize features, Checkpoint problems, and a Companion Website reinforce understanding of the skill sets to help students better prepare

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for tests. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Includes papers and proceedings of the annual meeting of the American Economic Association. Covers all areas of economic research.

CliffsQuickReview course guides cover the essentials of your toughest classes. Get a firm grip on core concepts and key material, and approach your exams with newfound confidence. CliffsQuickReview Linear Algebra demystifies the topic with straightforward explanations of the fundamentals. This comprehensive guide begins with a close look at vector algebra (including position vectors, the cross product, and the triangle inequality) and matrix algebra (including square matrices, matrix addition, and identity matrices). Once you have those subjects nailed down, you'll be ready to take on topics such as Linear systems, including Gaussian elimination and elementary row operations Real Euclidean vector spaces, including the nullspace of a matrix, projection into a subspace, and the Rank Plus Nullity Theorem The determinant, including definitions, methods, and Cramer's Rule Linear transformations, including basis vectors, standard matrix, kernal and range, and composition Eigenvalues and Eigenvectors, including definitions and illustrations, Eigenspaces, and diagonalization CliffsQuickReview Linear Algebra acts as a supplement to your textbook and to classroom lectures.

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Use this reference in any way that fits your personal style for study and review — the information is clearly arranged and offered in manageable units. Here are just a few of the features you'll find in this guide: A review of core concepts Clear diagrams and loads of formulas Easy to understand definitions and explanations Plenty of examples and detailed solutions With titles available for all the most popular high school and college courses, CliffsQuickReview guides are a comprehensive resource that can help you get the best possible grades. Contains graduate-level introductions by international experts to five areas of research in orthogonal polynomials and special functions.

With the same design and feature sets as the market leading Precalculus, 9/e, this concise text provides both students and instructors with sound, consistently structured explanations of the mathematical concepts. PRECALCULUS: A CONCISE COURSE is designed to offer a cost-effective, one-semester alternative to the traditional two-semester precalculus text. It contains the features that have made the Larson series a complete solution for both students and instructors: interesting applications, pedagogically effective design, and innovative technology combined with an abundance of carefully developed examples with worked-out solutions and exercises. Important Notice: Media content referenced within the product description or the product text may not be

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In recent years, many new techniques have emerged in the mathematical theory of discrete optimization that have proven to be effective in solving a number of hard problems. This book presents these recent advances, particularly those that arise from algebraic geometry, commutative algebra, convex and discrete geometry, generating functions, and other tools normally considered outside of the standard curriculum in optimization. These new techniques, all of which are presented with minimal prerequisites, provide a transition from linear to nonlinear discrete optimization. This book can be used as a textbook for advanced undergraduates or first-year graduate students in mathematics, computer science or operations research. It is also appropriate for mathematicians, engineers, and scientists engaged in computation who wish to gain a deeper understanding of how and why algorithms work.

Abstract Algebra: An Introduction is set apart by its thematic development and organization. The chapters are organized around two themes: arithmetic and congruence. Each theme is developed first for the integers, then for polynomials, and finally for rings and groups. This enables students to see where many abstract concepts come from, why they are important, and how they relate to one another. New to this edition is a groups first option that enables those who prefer

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to cover groups before rings to do so easily. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The best-selling introductory mathematics textbook for students on engineering and science degree and pre-degree courses. Sales stand at more than half a million copies world-wide. Its unique programmed approach really works! Many thousands of students have found that they understand and excel through using this book. It takes you through the mathematics in a step-by-step fashion with a wealth of examples and exercises. The text demands that you engage with it by asking you to complete steps that you should be able to manage from previous examples or knowledge you have acquired, while carefully introducing new steps. By working with the authors through the examples, you become proficient as you go. By the time you come to trying examples on your own, confidence is high. Aimed at undergraduates on Foundation and First Year degree programmes in all Engineering disciplines and Science. The Foundation section covers mathematics from GCSE onwards to allow for revision and gap-filling, and so means the book can be used for a range of abilities and all levels of access. New to this Edition: - A general revision of the entire contents - In Matrices an emphasis on eigenvalues and eigenvectors and the introduction of the Cayley–Hamilton theorem - New review summaries plus a new easy reference to help check back when you need more help - Key chapters improved yet further as a result of detailed student feedback

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The Nuts and Bolts of Proofs: An Introduction to Mathematical Proofs provides basic logic of mathematical proofs and shows how mathematical proofs work. It offers techniques for both reading and writing proofs. The second chapter of the book discusses the techniques in proving if/then statements by contrapositive and proofing by contradiction. It also includes the negation statement, and/or. It examines various theorems, such as the if and only-if, or equivalence theorems, the existence theorems, and the uniqueness theorems. In addition, use of counter examples, mathematical induction, composite statements including multiple hypothesis and multiple conclusions, and equality of numbers are covered in this chapter. The book also provides mathematical topics for practicing proof techniques. Included here are the Cartesian products, indexed families, functions, and relations. The last chapter of the book provides review exercises on various topics. Undergraduate students in engineering and physical science will find this book invaluable. Jumps right in with the needed vocabulary—gets students thinking like mathematicians from the beginning Offers a large variety of examples and problems with solutions for students to work through on their own Includes a collection of exercises without solutions to help instructors prepare assignments Contains an extensive list of basic mathematical definitions and concepts needed in abstract mathematics

Many textbooks on differential equations are written to be interesting to the teacher rather than the student. Introduction to Differential Equations with Dynamical Systems

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is directed toward students. This concise and up-to-date textbook addresses the challenges that undergraduate mathematics, engineering, and science students experience during a first course on differential equations. And, while covering all the standard parts of the subject, the book emphasizes linear constant coefficient equations and applications, including the topics essential to engineering students. Stephen Campbell and Richard Haberman--using carefully worded derivations, elementary explanations, and examples, exercises, and figures rather than theorems and proofs--have written a book that makes learning and teaching differential equations easier and more relevant. The book also presents elementary dynamical systems in a unique and flexible way that is suitable for all courses, regardless of length.

Written by the founders of the new and expanding field of numerical algebraic geometry, this is the first book that uses an algebraic-geometric approach to the numerical solution of polynomial systems and also the first one to treat numerical methods for finding positive dimensional solution sets. The text covers the full theory from methods developed for isolated solutions in the 1980's to the most recent research on positive dimensional sets.

Provides a review of the relevant math topics, test-taking tips, and five practice tests with answers.

- Strictly as per the latest syllabus, blueprint & design of the question paper.
- Board-specified typologies of questions for exam success
- Latest KTBS Textbook Questions

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- Latest NCERT Textbook Questions fully solved (Only For Science, Social and Maths)
- Mind Maps for clarity of Concepts
- Some Important Questions developed by the Oswaal Editorial Board
- Video links for blended learning

Bond and Keane explicate the elements of logical, mathematical argument to elucidate the meaning and importance of mathematical rigor. With definitions of concepts at their disposal, students learn the rules of logical inference, read and understand proofs of theorems, and write their own proofs all while becoming familiar with the grammar of mathematics and its style. In addition, they will develop an appreciation of the different methods of proof (contradiction, induction), the value of a proof, and the beauty of an elegant argument. The authors emphasize that mathematics is an ongoing, vibrant discipline its long, fascinating history continually intersects with territory still uncharted and questions still in need of answers. The authors' extensive background in teaching mathematics shines through in this balanced, explicit, and engaging text, designed as a primer for higher-level mathematics courses. They elegantly demonstrate process and application and recognize the byproducts of both the achievements and the missteps of past thinkers. Chapters 1-5 introduce the fundamentals of abstract mathematics and chapters 6-8 apply the ideas and techniques, placing the earlier material in a real context. Readers' interest is continually piqued by the use of clear explanations, practical examples, discussion and discovery exercises, and historical comments. PRECALCULUS: REAL MATHEMATICS, REAL PEOPLE, 7th Edition, is an ideal

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student and instructor resource for courses that require the use of a graphing calculator. The quality and quantity of the exercises, combined with interesting applications and innovative resources, make teaching easier and help students succeed. Retaining the series' emphasis on student support, selected examples throughout the text include notations directing students to previous sections to review concepts and skills needed to master the material at hand. The book also achieves accessibility through careful writing and design—including examples with detailed solutions that begin and end on the same page, which maximizes readability. Similarly, side-by-side solutions show algebraic, graphical, and numerical representations of the mathematics and support a variety of learning styles. Reflecting its subtitle, this significant revision focuses more than ever on showing students the relevance of mathematics in their lives and future careers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

COLLEGE ALGEBRA AND CALCULUS: AN APPLIED APPROACH, Second Edition provides your students a comprehensive resource for their college algebra and applied calculus courses. The mathematical concepts and applications are consistently presented in the same tone and pedagogy to promote confidence and a smooth transition from one course to the next. The consolidation of content for two courses in a single text saves you time in your course--and saves your students the cost of an extra

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textbook. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The third edition of Cynthia Young's College Algebra brings together all the elements that have allowed instructors and learners to successfully "bridge the gap" between classroom instruction and independent homework by overcoming common learning barriers and building confidence in students' ability to do mathematics. Written in a clear, single voice that speaks to students and mirrors how instructors communicate in lecture, Young's hallmark pedagogy enables students to become independent, successful learners. Varied exercise types and modeling projects keep the learning fresh and motivating. Young continues her tradition of fostering a love for succeeding in mathematics by introducing inquiry-based learning projects in this edition, providing learners an opportunity to master the material with more freedom while reinforcing mathematical skills and intuition. The seamless integration of Cynthia Young's College Algebra 3rd edition with WileyPLUS, a research-based, online environment for effective teaching and learning, continues Young's vision of building student confidence in mathematics because it takes the guesswork out of studying by providing them with a clear roadmap: what to do, how to do it, and whether they did it right. WileyPLUS sold separately from text.

Larson/Edwards' CALCULUS, 11th Edition, expertly combines the printed textbook and technology to deliver everything you need to master the material and pass the class.

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Stepped-out solution videos with instruction are available at CalcView.com for selected exercises throughout the text, and the website CalcChat.com presents free solutions to all of the odd-numbered exercises in the text. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Engineers looking for an accessible approach to calculus will appreciate Young's introduction. The book offers a clear writing style that helps reduce any math anxiety they may have while developing their problem-solving skills. It incorporates Parallel Words and Math boxes that provide detailed annotations which follow a multi-modal approach. Your Turn exercises reinforce concepts by allowing them to see the connection between the exercises and examples. A five-step problem solving method is also used to help engineers gain a stronger understanding of word problems.

Prepare for exams and succeed in your mathematics course with this comprehensive solutions manual! Featuring worked out-solutions to the problems in APPLIED CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES, 9th Edition, this manual shows you how to approach and solve problems using the same step-by-step explanations found in your textbook examples. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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SCIENCES, Ninth Edition balances applications, pedagogy, and technology to provide you with the context you need to stay motivated in the course and interested in the material. Accessible for majors and non-majors alike, the text uses an intuitive approach that introduces abstract concepts through examples drawn from common, real-life experiences to which you can relate. It also draws applications from numerous professional fields of interest. In addition, insightful Portfolios highlight the careers of real people and discuss how they incorporate math into their daily work activities. Numerous exercises ensure that you have a solid understanding of concepts before advancing to the next topic. Algebra review notes, keyed to the review chapter Preliminaries, appear where and when you need them. The text's exciting array of supplements equips you with extensive learning support to help you make the most of your study time. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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