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My formula books are designed to flow with a modern college course from start to finish. The student may use this material as a quick reference throughout the course or as a review for future courses. The material also serves as a quick refresher for students returning to school or preparing for graduate school exams. The Pre-Calculus workbook provides students with an overview of the skills in algebra, functions, trigonometry, analytic geometry, and graphical analysis that are crucial to success in higher-level mathematics, such as calculus. It also constructs a bridge to calculus by providing some introductory insight into sequences and series. Explanations of the concepts, definitions of key vocabulary, and detailed examples of problems and solutions are followed by practice exercises. The Middle/Upper Grades Math Series books provide students in middle school, junior high, and high school with instruction and practice in the fundamentals of math so they can transition to higher-order math concepts with confidence. Clear explanations, numerous practice exercises, and frequent reviews provide students with the tools for success in pre-algebra, algebra, statistics and probability, and pre-calculus. Correlated to current national, state, and provincial standards. Mark Twain Media Publishing Company specializes in providing engaging supplemental books and decorative resources to complement middle- and upper-grade classrooms. Designed by leading educators, the product line covers a range of subjects including mathematics, sciences, language arts, social studies, history, government, fine arts, and character. Free math and physics resources via JonathanTullis.com My formula sheets and crash course books are designed to assist college students throughout their STEM degree. I have isolated all of the most important information from all previous courses, current courses, and future courses that STEM majors must take i.e. Algebra, Trigonometry, PreCalculus, Calculus (all areas), Linear Algebra, Differential Equations, Physics and more. This text provides a concise, accessible introduction to trigonometry for high school and first-year college and university students and builds up the skill sets needed to succeed in college and university calculus courses. Free math and physics resources via JonathanTullis.com

My formula sheets and crash course books are designed to assist college students throughout their STEM degree. I have isolated all of the most important information from all previous courses, current courses, and future courses that STEM majors must take i.e. Algebra, Trigonometry, PreCalculus, Calculus (all areas), Linear Algebra, Differential Equations, Physics and more. Gary Rockswold teaches algebra in context, answering the question, “Why am I learning this?” By experiencing math through applications, students see how it fits into their lives, and they become motivated to succeed. Rockswold’s focus on conceptual understanding helps students make connections between the concepts and as a result, students see the bigger picture of math and are prepared for future courses. Introduction to Functions and Graphs; Linear Functions and Equations; Quadratic Functions and Equations; More Nonlinear Functions and Equations; Exponential and Logarithmic Functions; Trigonometric Functions; Trigonometric Identities and Equations; Further Topics in Trigonometry; Systems of Equations and Inequalities; Conic Sections; Further Topics in Algebra For all readers interested in college algebra and trigonometry. The book provides an accumulation of articles, included in Focus on Mathematics Pedagogy and Content, a newsletter for teachers, published by Texas A&M University. Each article presents a discussion of a middle or high school mathematics topic. Many of the articles are written by professors at Texas A&M University. The book is broken into three parts, with the first part focusing on content and pedagogy, related to the NCTM content strands of Number, Algebra, Geometry, Measurement, and Statistics and Probability. Articles include an in-depth presentation of mathematical content, as well as suggested instructional strategies. Thus, the integration of content knowledge and pedagogical knowledge is emphasized. The second and third parts apply to assessments, mathematical games, teaching tips, and technological applications. While other pedagogical reference books may provide an in-depth look at how to teach a topic, this book includes articles that also explain a topic, in great length. Thus, teachers may develop content knowledge first and then re-read each article, in order to learn appropriate instructional strategies to use. Many articles include technological applications, which are interspersed throughout the book. In addition, a special section, which includes helpful information, available tools, training sessions, and other references, for using technology in mathematics, is also presented. This book offers effective, research-based strategies that can be mixed and matched to differentiate mathematics instruction for high school students through four different learning styles. Learn From the Experts! Sign up for a Math Professional Development Institute in your area—visit [www.ThoughtfulClassroom.com/events](http://www.ThoughtfulClassroom.com/events) CliffsQuickReview course guides cover the essentials of your toughest classes. You're sure to get a firm grip on core concepts and key material and be ready for the test with this guide at your side. Whether you're new to functions, analytic geometry, and matrices or just brushing up on those topics, CliffsQuickReview Precalculus can help. This guide introduces each topic, defines key terms, and walks you through each sample problem step-by-step. In no time, you'll be ready to tackle other concepts in this book such as Arithmetic and algebraic skills Functions and their graphs Polynomials, including binomial expansion Right and oblique angle trigonometry Equations and graphs of conic sections Matrices and their application to systems of equations CliffsQuickReview Precalculus acts as a supplement to your textbook and to classroom lectures. Use this reference in any way that fits your personal style for study and review — you decide what works best with your needs. You can either read the book from cover to cover or just look for the information you want and put it back on the shelf for later. What's more, you can Use the free Pocket Guide full of essential information Get a glimpse of what you'll gain from a chapter by reading through the Chapter Check-In at the beginning of each chapter Use the Chapter Checkout at the end of each chapter to gauge your grasp of the important information you need

to know Test your knowledge more completely in the CQR Review and look for additional sources of information in the CQR Resource Center Use the glossary to find key terms fast. 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. Gary Rockswold focuses on teaching algebra in context, answering the question, "Why am I learning this?" and ultimately motivating the students to succeed in this class. In addition, the author's understanding of what instructors need from a text (great 'real' examples and lots of exercises) makes this book fun and easy to teach from. Integrating this textbook into your course will be a worthwhile endeavor. A firm foundation in algebra is necessary for success in college-level mathematics courses. [The book] is designed to help students develop their proficiency in algebra, and so strength their understanding of the underlying concepts. Although the basic concepts of algebra are reviewed in the text, it is assumed that most students taking this course have completed two years of high school algebra. The text takes every opportunity to show how algebra is a modern modeling language for real-life problems -Pref. Barron's Math 360: Pre-Calculus is your complete go-to guide for everything pre-calculus This comprehensive guide is an essential resource for: High school and college courses Homeschooling Virtual Learning Learning pods Inside you'll find: Comprehensive Content Review: Begin your study with the basic building blocks of pre-calculus and build as you go. Topics include, algebraic methods, functions and graphs, complex numbers, polynomial and rational functions, and much more. Effective Organization: Topic organization and simple lesson formats break down the subject matter into manageable learning modules that help guide a successful study plan customized to your needs. Clear Examples and Illustrations: Easy-to-follow explanations, hundreds of helpful illustrations, and numerous step-by-step examples make this book ideal for self-study and rapid learning. Practice Exercises: Each chapter ends with practice exercises designed to reinforce and extend key skills and concepts. These checkup exercises, along with the answers and solutions, will help you assess your understanding and monitor your progress. Access to Online Practice: Take your learning online for 50 practice questions designed to test your knowledge with automated scoring to show you how far you have come. Precalculus is adaptable and designed to fit the needs of a variety of precalculus courses. It is a comprehensive text that covers more ground than a typical one- or two-semester college-level precalculus course. The content is organized by clearly-defined learning objectives, and includes worked examples that demonstrate problem-solving approaches in an accessible way. Coverage and Scope Precalculus contains twelve chapters, roughly divided into three groups. Chapters 1-4 discuss various types of functions, providing a foundation for the remainder of the course. Chapter 1: Functions Chapter 2: Linear Functions Chapter 3: Polynomial and Rational Functions Chapter 4: Exponential and Logarithmic Functions Chapters 5-8 focus on Trigonometry. In Precalculus, we approach trigonometry by first introducing angles and the unit circle, as opposed to the right triangle approach more commonly used in College Algebra and Trigonometry courses. Chapter 5: Trigonometric Functions Chapter 6: Periodic Functions Chapter 7: Trigonometric Identities and Equations Chapter 8: Further Applications of Trigonometry Chapters 9-12 present some advanced Precalculus topics that build on topics introduced in chapters 1-8. Most Precalculus syllabi include some of the topics in these chapters, but few include all. Instructors can select material as needed from this group of chapters, since they are not cumulative. Chapter 9: Systems of Equations and Inequalities Chapter 10: Analytic Geometry Chapter 11: Sequences, Probability and Counting Theory Chapter 12: Introduction to Calculus This book provides students with a tool to improve their knowledge in preparation to learning Mathematics. This book is intended to be a quick review of the Linear Equations and Inequalities. The book follows

the main precalculus concepts needed in order to understand High School Algebra. It starts with the Cartesian System, then Straight lines, Linear Equations, and Linear Inequalities. It explains concepts as distance between points, slope of a line, solving linear one step and multi step equations, parallel and perpendicular lines, solving one step and multistep inequalities. This is the first book on the High School Algebra. Free math and physics resources via JonathanTullis.com My formula sheets and crash course books are designed to assist college students throughout their STEM degree. I have isolated all of the most important information from all previous courses, current courses, and future courses that STEM majors must take i.e. Algebra, Trigonometry, PreCalculus, Calculus (all areas), Linear Algebra, Differential Equations, Physics and more. Written by David Cohen and co-authors Theodore B. Lee and David Sklar, PRECALCULUS, Seventh Edition, focuses on the use of a graphical perspective to provide a visual understanding of college algebra and trigonometry. Cohen's texts are known for their clear writing style and outstanding, graded exercises and applications, including many examples and exercises involving applications and real-life data. Graphs, visualization of data, and functions are introduced and emphasized early on to aid student understanding. Although the text provides thorough treatment of the graphing calculator, the material is arranged to allow instructors to teach the course with as much or as little graphing utility work as they wish.

Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Free math and physics resources via JonathanTullis.com My formula sheets and crash course books are designed to assist college students throughout their STEM degree. I have isolated all of the most important information from all previous courses, current courses, and future courses that STEM majors must take i.e. Algebra, Trigonometry, PreCalculus, Calculus (all areas), Linear Algebra, Differential Equations, Physics and more. Increasingly, educators are turning to Mathematica for instructing students in science and mathematics. The growing popularity of this exciting software package creates a need for undergraduate students to be familiar with its many functions and uses. The Student's Introduction to Mathematica® neatly follows a standard mathematics curriculum, allowing students to practice what they learn. The text lucidly presents those aspects of the software that are the most useful to students. Mathematica commands are introduced as a means of solving problems and illuminating the underlying mathematical principles. Following a brief introduction to the program, Bruce and Eve Torrence discuss functions and graphs, algebra, calculus, and multivariate calculus, and finish with a chapter on linear algebra. No prerequisites other than high school level mathematics are assumed. This work can be used in a variety of courses, from precalculus, through single and multi-variable calculus, to linear algebra. In addition to its course use, this book is an excellent tutorial for those wishing to learn Mathematica and brush up on their mathematics at the same time. The volume is compatible with Mathematica version 3 and higher. The team of teachers and mathematicians who created Eureka Math™ believe that it's not enough for students to know the process for solving a problem; they need to know why that process works. That's why students who learn math with Eureka can solve real-world problems, even those they have never encountered before. The Study Guides are a companion to the Eureka Math program, whether you use it online or in print. The guides collect the key components of the curriculum for each grade in a single volume. They also unpack the standards in detail so that anyone—even non-Eureka users—can benefit. The guides are particularly helpful for teachers or trainers seeking to undertake or lead a meaningful study of the grade level content in a way that highlights the coherence between modules and topics. We're here to make sure you succeed with an ever-growing library of resources. Take advantage of the full set of Study Guides available for each grade, PK-12, or materials at [eureka-math.org](http://eureka-math.org), such as

free implementation and pacing guides, material lists, parent resources, and more. Gary Rockswold teaches algebra in context, answering the question, "Why am I learning this?" By experiencing math through applications, students see how it fits into their lives, and they become motivated to succeed. Rockswold's focus on conceptual understanding helps students make connections between the concepts and as a result, students see the bigger picture of math and are prepared for future courses. Introduction to Functions and Graphs; Linear Functions and Equations; Quadratic Functions and Equations; More Nonlinear Functions and Equations; Exponential and Logarithmic Functions; Trigonometric Functions; Trigonometric Identities and Equations; Further Topics in Trigonometry; Systems of Equations and Inequalities; Conic Sections; Further Topics in Algebra For all readers interested in college algebra. Precalculus was developed to create a program that seamlessly align with how teachers teach and fully supports student learning. Cynthia Young's goal was to create an intuitive, supportive product for students without sacrificing the rigor needed for true conceptual understanding and preparation for Calculus. Precalculus helps bridge the gap between in-class work and homework by mirroring the instructor voice outside the classroom through pedagogical features. A study guide to pre-calculus mathematics for high school students that includes practice problems with detailed explanations on how to get the answers. With a visual, graphical approach that emphasizes connections among concepts, this text helps students make the most of their study time. The authors show how different mathematical ideas are tied together through their zeros, solutions, and x-intercepts theme; side-by-side algebraic and graphical solutions; calculator screens; and examples and exercises. By continually reinforcing the connections among various mathematical concepts as well as different solution methods, the authors lead students to the ultimate goal of mastery and success in class. Specifically designed to meet the needs of high school students, REA's High School Pre-Calculus Tutor presents hundreds of solved problems with step-by-step and detailed solutions. Almost any imaginable problem that might be assigned for homework or given on an exam is covered. Topics include algebraic laws and operations, coordinate system relations, linear functions, sequences, series, graphing, limits, and applications. A valuable study aid for students taking upper-level mathematics courses. Fully indexed for locating specific problems rapidly. The new Must Know series is like a lightning bolt to the brain Every school subject has must know ideas, or essential concepts, that lie behind it. This book will use that fact to help you learn in a unique way. Most study guides start a chapter with a set of goals, often leaving the starting point unclear. In Must Know High School Pre-calculus, however, each chapter will immediately introduce you to the must know idea, or ideas, that lie behind the new pre-calculus topic. As you learn these must know ideas, the book will show you how to apply that knowledge to solving pre-calculus problems. Focused on the essential concepts of pre-calculus subjects, this accessible guide will help you develop a solid understanding of the subject quickly and painlessly. Clear explanations are accompanied by numerous examples and followed with more challenging aspects of pre-calculus. Practical exercises close each chapter and will instill you with confidence in your growing pre-calculus skills. Must Know High School Pre-calculus features:

- Each chapter begins with the must know ideas behind the new topic
- Extensive examples illustrate these must know ideas
- Students learn how to apply this new knowledge to problem solving
- 250 practical review questions instill confidence
- IRL (In Real Life) sidebars present real-life examples of the subject at work in culture, science, and history
- Special BTW (By the Way) sidebars provide study tips, exceptions to the rule, and issues students should pay extra attention to
- Bonus app includes 100 flashcards to reinforce what students have learned

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book.

Dugopolski's College Algebra, Fifth Edition gives readers the essential strategies to help them develop the comprehension and confidence they need to be successful in this course. Readers will find enough carefully placed learning aids and review tools to help them do the math without getting distracted from their objectives. Regardless of their goals beyond the course, all readers will benefit from Dugopolski's emphasis on problem solving and critical thinking, which is enhanced by the addition of nearly 1,000 exercises in this edition. A Basic Approach to Precalculus Trigonometry: Preparing to Succeed in Calculus provides a concise, accessible introduction to trigonometry for high school and first-year college and university students. The book builds up the skill sets needed to succeed in college and university calculus courses. The material is organized into five chapters: rational functions; trigonometric functions; trigonometric identities and equations; applications of trigonometric functions, and sequences and series. Within each section all math terms are well-defined before instruction. The instruction is then organized into manageable, easily assimilated chunks with example problems and their solutions, followed by practice opportunities. Once an instructional unit is completed, all steps are listed in box format to help students organize and remember information. A Basic Approach to Precalculus Trigonometry breaks mathematical concepts down into steps that students can approach with ease and practice with confidence. The book prepares students who are new to trigonometry to succeed in more advanced courses. Gary Rockswold teaches algebra in context, answering the question, "Why am I learning this?" By experiencing math through applications, students see how it fits into their lives, and they become motivated to succeed. Rockswold's focus on conceptual understanding helps students make connections between the concepts and as a result, students see the bigger picture of math and are prepared for future courses. Introduction to Functions and Graphs; Linear Functions and Equations; Quadratic Functions and Equations; More Nonlinear Functions and Equations; Exponential and Logarithmic Functions; Trigonometric Functions; Trigonometric Identities and Equations; Further Topics in Trigonometry; Systems of Equations and Inequalities; Conic Sections; Further Topics in Algebra

For all readers interested in precalculus. Get ahead in pre-calculus Pre-calculus courses have become increasingly popular with 35 percent of students in the U.S. taking the course in middle or high school. Often, completion of such a course is a prerequisite for calculus and other upper level mathematics courses. Pre-Calculus For Dummies is an invaluable resource for students enrolled in pre-calculus courses. By presenting the essential topics in a clear and concise manner, the book helps students improve their understanding of pre-calculus and become prepared for upper level math courses. Provides fundamental information in an approachable manner Includes fresh example problems Practical explanations mirror today's teaching methods Offers relevant cultural references Whether used as a classroom aid or as a refresher in preparation for an introductory calculus course, this book is one you'll want to have on hand to perform your very best. Are you looking for new ways to engage your students? Classroom voting can be a powerful way to enliven your classroom, by requiring all students to consider a question, discuss it with their peers, and vote on the answer during class. When used in the right way, students engage more deeply with the material, and have fun in the process, while you get valuable feedback when you see how they voted. But what are the best strategies to integrate voting into your lesson plans? How do you teach the full curriculum while including these voting events? How do you find the right questions for your students? This collection includes papers from faculty at institutions across the country, teaching a broad range of courses with classroom voting, including college algebra, precalculus, calculus, statistics, linear algebra, differential equations, and beyond. These faculty share their experiences and explain how they have used classroom voting to engage students, to provoke discussions, and to improve how they teach

mathematics. This volume should be of interest to anyone who wants to begin using classroom voting as well as people who are already using it but would like to know what others are doing. While the authors are primarily college-level faculty, many of the papers could also be of interest to high school mathematics teachers. --Publisher description. A Graphical Approach to Precalculus with Limits: A Unit Circle Approach illustrates how the graph of a function can be used to support the solutions of equations and inequalities involving the function. Beginning with linear functions in Chapter 1, the text uses a four-part process to analyze each type of function, starting first with the graph of the function, then the equation, the associated inequality of that equation, and ending with applications. The text covers all of the topics typically caught in a college algebra course, but with an organization that fosters students' understanding of the interrelationships among graphs, equations, and inequalities. With the Fifth Edition, the text continues to evolve as it addresses the changing needs of today's students. Included are additional components to build skills, address critical thinking, solve applications, and apply technology to support traditional algebraic solutions, while maintaining its unique table of contents and functions-based approach. A Graphical Approach to Precalculus with Limits: A Unit Circle Approach continues to incorporate an open design, with helpful features and careful explanations of topics. ÒGeometry is a very beautiful subject whose qualities of elegance, order, and certainty have exerted a powerful attraction on the human mind for many centuries. . . Algebra's importance lies in the student's future. . . as essential preparation for the serious study of science, engineering, economics, or for more advanced types of mathematics. . . The primary importance of trigonometry is not in its applications to surveying and navigation, or in making computations about triangles, but rather in the mathematical description of vibrations, rotations, and periodic phenomena of all kinds, including light, sound, alternating currents, and the orbits of the planets around the sun.Ó In this brief, clearly written book, the essentials of geometry, algebra, and trigonometry are pulled together into three complementary and convenient small packages, providing an excellent preview and review for anyone who wishes to prepare to master calculus with a minimum of misunderstanding and wasted time and effort. Students and other readers will find here all they need to pull them through. For courses in Algebra and Trigonometry. This package includes MyMathLab• Showing why math matters Gary Rockswold doesn't just mention real-world examples; he teaches mathematical concepts through those applications. For example, if we look at Facebook usage over time, what might that tell us about linear growth and predictions? In this way, students learn the concepts in the context of the world they know, which leads to better understanding and retention. From there, the author shows a connection between application, modeling, and visualization. Rockswold is known for presenting the concept of a function as a unifying theme, with an emphasis on the rule of four (verbal, graphical, numerical, and symbolic representations). The 6th Edition emphasizes conceptual understanding with new in-chapter features and assignment options, while at the same time providing tools to empower instructors to make their classroom more active through collaboration and group work. Note: You are purchasing a standalone product; MyLab™ & Mastering™ does not come packaged with this content. Students, if interested in purchasing this title with MyLab & Mastering, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. If you would like to purchase both the physical text and MyLab & Mastering, search for: 0134465393 / 9780134465395 Algebra and Trigonometry with Modeling & Visualization plus MyMathLab with eText -- Access Card Package Package consists of: 0134418026 / 9780134418025 Algebra and Trigonometry with Modeling & Visualization 0321431308 / 9780321431301 MyMathLab -- Glue-in Access Card 0321654064 / 9780321654069 MyMathLab Inside Star Sticker MyMathLab should only be purchased when



required by an instructor. "Precalculus is intended for college-level precalculus students. Since precalculus courses vary from one institution to the next, we have attempted to meet the needs of as broad an audience as possible, including all of the content that might be covered in any particular course. The result is a comprehensive book that covers more ground than an instructor could likely cover in a typical one- or two-semester course; but instructors should find, almost without fail, that the topics they wish to include in their syllabus are covered in the text. Many chapters of OpenStax College Precalculus are suitable for other freshman and sophomore math courses such as College Algebra and Trigonometry; however, instructors of those courses might need to supplement or adjust the material. OpenStax will also be releasing College Algebra and Algebra and trigonometry titles tailored to the particular scope, sequence, and pedagogy of those courses."--Preface. This is the last of three volumes that, together, give an exposition of the mathematics of grades 9–12 that is simultaneously mathematically correct and grade-level appropriate. The volumes are consistent with CCSSM (Common Core State Standards for Mathematics) and aim at presenting the mathematics of K–12 as a totally transparent subject. This volume distinguishes itself from others of the same genre in getting the mathematics right. In trigonometry, this volume makes explicit the fact that the trigonometric functions cannot even be defined without the theory of similar triangles. It also provides details for extending the domain of definition of sine and cosine to all real numbers. It explains as well why radians should be used for angle measurements and gives a proof of the conversion formulas between degrees and radians. In calculus, this volume pares the technicalities concerning limits down to the essential minimum to make the proofs of basic facts about differentiation and integration both correct and accessible to school teachers and educators; the exposition may also benefit beginning math majors who are learning to write proofs. An added bonus is a correct proof that one can get a repeating decimal equal to a given fraction by the “long division” of the numerator by the denominator. This proof attends to all three things all at once: what an infinite decimal is, why it is equal to the fraction, and how long division enters the picture. This book should be useful for current and future teachers of K–12 mathematics, as well as for some high school students and for education professionals. Three components contribute to a theme sustained throughout the Coburn/Herdlick Graphs and Models series: that of laying a firm foundation, building a solid framework, and providing strong connections. In the Graphs and Models texts, the authors combine their depth of experience with the conversational style and the wealth of applications that the Coburn/Herdlick texts have become known for. By combining a graphical approach to problem solving with algebraic methods, students learn how to relate their mathematical knowledge to the outside world. The authors use technology to solve the more true to life equations, to engage more applications, and to explore the more substantial questions involving graphical behavior. Benefiting from the feedback of hundreds of instructors and students across the country, Precalculus: Graphs & Models emphasizes connections in order to improve the level of student engagement in mathematics and increase their chances of success in precalculus and calculus. The launch of the Coburn/Herdlick Graphs and Models series provides a significant leap forward in terms of online course management with McGraw-Hill’s new homework platform, Connect Math Hosted by ALEKS Corp. Math instructors served as digital contributors to choose the problems that will be available, authoring each algorithm and providing stepped out solutions that go into great detail and are focused on areas where students commonly make mistakes. From there, the ALEKS Corporation reviewed each algorithm to ensure accuracy. A unifying theme throughout the entire process was the involvement of the authors. Through each step, they provided feedback and guidance to the digital contributors to ensure that the content being developed digitally closely matched the textbook. The result is an

online homework platform that provides superior content and feedback, allowing students to effectively learn the material being taught. With the same design and feature sets as the market leading Precalculus, 8/e, this addition to the Larson Precalculus series provides both students and instructors with sound, consistently structured explanations of the mathematical concepts. Designed for a two-term course, this text contains the features that have made Precalculus a complete solution for both students and instructors: interesting applications, cutting-edge design, and innovative technology combined with an abundance of carefully written exercises. In addition to a brief algebra review and the core precalculus topics, PRECALCULUS WITH LIMITS covers analytic geometry in three dimensions and introduces concepts covered in calculus. 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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