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Intermediate Algebra Concepts and Applications Addison-Wesley Longman This volume presents the application of graphic, numeric and analytic methods to model, interpret and solve real-world problems involving: linear, quadratic, rational, radical, exponential and logarithmic functions; systems of linear and quadratic equations or inequalities; and absolute value equations or inequalities. Additional topics include conic sections and an introduction to matrices and determinants. **Elementary Algebra Concepts and Applications** Pearson College Division Normal 0 false false false The Bittinger Concepts and Applications Program delivers proven pedagogy, guiding students from skills-based math to the concepts-oriented math required for college courses. **Intermediate Algebra Concepts and Applications** Pearson For courses in Intermediate Algebra. Understanding and Applying Mathematical Concepts The goal of the Bittinger Concepts and Applications Series is to help today's student learn and retain mathematical concepts. This proven program prepares students for the transition from skills-oriented elementary algebra courses to more concept-oriented college-level mathematics courses. This requires the development of critical-thinking skills: to reason mathematically, to communicate mathematically, and to identify and solve mathematical problems. The new editions support students with a tightly integrated MyMathLab course; a strong focus on problem-solving, applications, and concepts, and the robust MyMathGuide workbook and objective-based video program. In addition, new material--developed as a result of the authors' experience in the classroom, as well as from insights from faculty and students--includes more systematic review and preparation for practice, as well as stronger focus on real-world applications. Also available with MyMathLab (tm) . MyMathLab is an online homework, tutorial, and assessment program designed to work with this text to engage students and improve results. Within its structured environment, students practice what they learn, test their understanding, and pursue a personalized study plan that helps them absorb course material and understand difficult concepts. Note: You are purchasing a standalone product; MyLab(tm)& Mastering(tm) 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: 0134507339/ 9780134507330 Intermediate Algebra: Concepts & Applications Plus MyMathLab -- Access Card Package, 10/e Package consists of: 0134497171 / 9780134497174 Intermediate Algebra: Concepts & Applications 0321431308 / 9780321431301 MyMathLab -- Glue-in Access Card 0321654064 / 9780321654069 MyMathLab Inside Star Sticker Student can use the URL and phone number below to help answer their questions: http://247pearsoned.custhelp.com/app/home 800-677-6337 **Accountable Care Organizations Value Metrics and Capital Formation** CRC Press An accountable care organization (ACO) is a healthcare organization characterized by a payment and care delivery model that seeks to tie provider reimbursements to quality metrics and reductions in the total cost of care for an assigned group of patients. Accountable Care Organizations: Value Metrics and Capital Formation explores the historical ba **Calculus and Its Applications** Pearson NOTE: You are purchasing a standalone product; MyMathLab does not come packaged with this content. If you would like to purchase both the physical text and MyMathLab, search for: 013379556X / 9780133795561 Calculus And Its Applications Plus MyMathLab with Pearson eText -- Access Card Package Package consists of: 0321431308 / 9780321431301 MyMathLab -- Glue-in Access Card 0321654069 MyMathLab Inside Star Sticker 0321979397 / 9780321979391 Calculus And Its Applications MyMathLab should only be purchased when required by an instructor. Calculus and Its Applications, Eleventh Edition, remains a best-selling text because of its accessible presentation that anticipates student needs. The writing style is ideal for today's students, providing intuitive explanations that work with the carefully crafted artwork to help them visualize new calculus concepts. Additionally, the text's numerous and up-to-date applications from business, economics, life sciences, and social sciences help motivate students. Algebra diagnostic and review material is available for those who need to strengthen basic skills. Every aspect of this revision is designed to motivate and help students to more readily understand and apply the mathematics. **Elementary and Intermediate Algebra** This volume is a textbook for both the beginning algebra and the intermediate algebra classes. Topics include introduction to algebraic expressions, equations, inequalities, and problem solving, introduction to graphing, polynomials, polynomials and factoring, rational expressions and equations, functions and graphs, systems of equations and problem solving, inequalities and problem solving, exponents and radicals, quadratic functions and equations, exponential and logarithmic functions, conic sections, sequences, series, and the binomial theorem. **Intermediate Algebra Concepts and Applications College Algebra Graphs and Models** Pearson For courses in college algebra. Visualize. Interact. Succeed. The Graphs and Models series by Bittinger, Beecher, Ellenbogen, and Penna is known for helping students "see the math" through its focus on visualization and technology. These texts continue to maintain the features that have helped students succeed for years: focus on functions, visual emphasis, side-by-side algebraic and graphical solutions, and real-data applications. With the Sixth Edition, visualization is taken to a new level with technology, and students find even more ongoing review. Also available with MyMathLab MyMathLab® is an online homework, tutorial, and assessment program designed to work with this text to engage students and improve results. Within its structured environment, students practice what they learn, test their understanding, and pursue a personalized study plan that helps them absorb course material and understand difficult concepts. New Guided Visualizations in MyMathLab help students allow for hands-on manipulation to gain understanding of difficult concepts. References to 28 Just-In-Time review topics are placed throughout the text and MyMathLab to help students right when they need it most, and new Cumulative Review Assignments and Skill Maintenance Quizzes are pre-made and assignable in MyMathLab to help students connect concepts and maintain skills throughout the course. Plus, new Video Assessment Exercises and a new Video Notebook further enhance the MyMathLab course and resources available. Note: You are purchasing a standalone product; MyMathLab does not come packaged with this content. Students, if interested in purchasing this title with MyMathLab, 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 MyMathLab, search for: 0134265211 / 9780134265216 * College Algebra: Graphs and Models Plus MyMathLab with Pearson eText -- Access Card Package Package consists of: 013417903X / 9780134179032 * College Algebra: Graphs and Models 0321431308 / 9780321431301 * MyMathLab -- Glue-in Access Card 0321654064 / 9780321654069 * MyMathLab Inside Star Sticker **Intermediate Algebra Calculus and Its Applications** Pearson College Division **Geometry Fundamental Concepts and Applications** Pearson College Division This Geometry workbook makes the fundamental concepts of geometry accessible and interesting for college students and incorporates a variety of basic algebra skills in order to show the connection between Geometry and Algebra. Topics include: A Brief History of Geometry 1. Basic Geometry Concepts 2. More about Angles 3. Triangles 4. More about Triangles: Similarity and Congruence 5. Quadrilaterals 6. Polygons 7. Area and Perimeter 8. Circles 9. Volume and Surface Area 10. Basic Trigonometry **Prealgebra** Pearson The Bittinger Worktext Series recognizes that math hasn't changed, but students—and the way they learn math—have. This latest edition continues the Bittinger tradition of objective-based, guided learning, while also integrating timely updates to the proven pedagogy. This edition has a greater emphasis on guided learning and helping students get the most out of all of the resources available, including new mobile learning resources, whether in a traditional lecture, hybrid, lab-based, or online course. NOTE: Before purchasing, check with your instructor to ensure you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, and registrations are not transferable. To register for and use Pearson's MyLab & Mastering products, you may also need a Course ID, which your instructor will provide. Used books, rentals, and purchases made outside of Pearson If purchasing or renting from companies other than Pearson, the access codes for Pearson's MyLab & Mastering products may not be included, may be incorrect, or may be previously redeemed. Check with the seller before completing your purchase. Note: You are purchasing a standalone product; MyMathLab does not come packaged with this content. MyMathLab is not a self-paced technology and should only be purchased when required by an instructor. If you would like to purchase both the physical text and MyMathLab, search for: 0134116070 / 9780134116075 Prealgebra Plus MyMathLab with Pearson eText -- Access Card Package Package consists of: 0321431308 / 9780321431301 MyMathLab -- Glue-in Access Card 0321654064 / 9780321654069 MyMathLab Inside Star Sticker 0321997158 / 9780321997159 Prealgebra Students, if interested in purchasing this title with MyMathLab, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. **The 9/11 Commission Report Final Report of the National Commission on Terrorist Attacks Upon the United States** Createspace Independent Publishing Platform Nearly three thousand people died in the terrorist attacks of September 11, 2001. In Lower Manhattan, on a field in Pennsylvania, and along the banks of the Potomac, the United States suffered the single largest loss of life from an enemy attack on its soil. In November 2002 the United States Congress and President George W. Bush established by law the National Commission on Terrorist Attacks Upon the United States, also known as the 9/11 Commission. This independent, bipartisan panel was directed to examine the facts and circumstances surrounding the September 11 attacks, identify lessons learned, and provide recommendations to safeguard against future acts of terrorism. **Managing Transboundary Waters of Latin America** Routledge Definitive analyses of transboundary water management in Latin America are conspicuous by their absence. The situation is a little better for rivers compared to groundwater resources. Transboundary water management in Latin America has been evolving in a somewhat different manner compared to other continents. The book includes eight authoritative case studies of Latin American transboundary rivers and aquifers, as well as a thinkpiece on the complexities of managing aquifers based on global experiences. The case studies are of different scales, ranging from the mighty Amazon to small Silala. The overall focus of the book is on ways in which such difficult and complex rivers and aquifers that are shared by two or more countries can be managed efficiently and equitably, and on the lessons, both positive and negative, that other regions can learn from the Latin American experience. This book was published as a special issue of the International Journal of Water Resources Development. **Marine Microbiome and Biogeochemical Cycles in Marine Productive Areas** Frontiers Media SA **Set Theory and Logic** Courier Corporation Explores sets and relations, the natural number sequence and its generalization, extension of natural numbers to real numbers, logic, informal axiomatic mathematics, Boolean algebras, informal axiomatic set theory, several algebraic theories, and 1st-order theories. **Algebra and Trigonometry** "The text is suitable for a typical introductory algebra course, and was developed to be used flexibly. While the breadth of topics may go beyond what an instructor would cover, the modular approach and the richness of content ensures that the book meets the needs of a variety of programs."--Page 1. **Precalculus Graphs and Models, a Right Triangle Approach** Pearson For courses in precalculus. Visualize. Interact. Succeed. The Graphs and Models series by Bittinger, Beecher, Ellenbogen, and Penna is known for helping students "see the math" through its focus on visualization and technology. These texts continue to maintain the features that have helped students succeed for years: focus on functions, visual emphasis, side-by-side algebraic and graphical solutions, and real-data applications. With the Sixth Edition, visualization is taken to a new level with technology, and students find even more ongoing review. Also available with MyMathLab MyMathLab® is an online homework, tutorial, and assessment program designed to work with this text to engage students and improve results. Within its structured environment, students practice what they learn, test their understanding, and pursue a personalized study plan that helps them absorb course material and understand difficult concepts. New Guided Visualizations in MyMathLab help students allow for hands-on manipulation to gain understanding of difficult concepts. References to 28 Just-In-Time review topics are placed throughout the text and MyMathLab to help students right when they need it most, and new Cumulative Review Assignments and Skill Maintenance Quizzes are pre-made and assignable in MyMathLab to help students connect concepts and maintain skills throughout the course. Plus, new Video Assessment Exercises and a new Video Notebook further enhance the MyMathLab course and resources available. Note: You are purchasing a standalone product; MyMathLab does not come packaged with this content. Students, if interested in purchasing this title with MyMathLab, 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 MyMathLab, search for: 0134379950 / 9780134379951 * Precalculus: Graphs and Models plus MyMathLab with Pearson eText -- Access Card Package Package consists of: 0134179056 / 9780134179056 * Precalculus: Graphs and Models 0321431308 / 9780321431301 * MyMathLab -- Glue-in Access Card

0321654064 / 9780321654069 * MyMathLab Inside Star Sticker **Elementary and Intermediate Algebra Concepts and Applications** Pearson For courses in Beginning & Intermediate Algebra. Understanding and Applying Mathematical Concepts The goal of the Bittinger Concepts and Applications Series is to help today's student learn and retain mathematical concepts. This proven program prepares students for the transition from skills-oriented elementary algebra courses to more concept-oriented college-level mathematics courses. This requires the development of critical-thinking skills: to reason mathematically, to communicate mathematically, and to identify and solve mathematical problems. The new editions support students with a tightly integrated MyLab™ Math course; a strong focus on problem-solving, applications, and concepts, and the robust MyMathGuide workbook and objective-based video program. In addition, new material—developed as a result of the authors' experience in the classroom, as well as from insights from faculty and students—includes more systematic review and preparation for practice, as well as stronger focus on real-world applications. Also available with MyLab Math. MyLab™ Math is an online homework, tutorial, and assessment program designed to work with this text to engage students and improve results. Within its structured environment, students practice what they learn, test their understanding, and pursue a personalized study plan that helps them absorb course material and understand difficult concepts. Note: You are purchasing a standalone product; MyLab™ does not come packaged with this content. Students, if interested in purchasing this title with MyLab, 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, search for: 0134772342 / 9780134772349 Elementary & Intermediate Algebra: Concepts & Applications Plus MyLab Math -- Title-Specific Access Card Package, 7/e Package consists of: 013446270X / 9780134462707 Elementary and Intermediate Algebra: Concepts & Applications 0134762614 / 9780134762616 MyLab Math with Pearson eText -- Standalone Access Card -- for Elementary and Intermediate Algebra: Concepts & Applications **Comprehensive Materials Processing** Newnes Comprehensive Materials Processing provides students and professionals with a one-stop resource consolidating and enhancing the literature of the materials processing and manufacturing universe. It provides authoritative analysis of all processes, technologies, and techniques for converting industrial materials from a raw state into finished parts or products. Assisting scientists and engineers in the selection, design, and use of materials, whether in the lab or in industry, it matches the adaptive complexity of emergent materials and processing technologies. Extensive traditional article-level academic discussion of core theories and applications is supplemented by applied case studies and advanced multimedia features. Coverage encompasses the general categories of solidification, powder, deposition, and deformation processing, and includes discussion on plant and tool design, analysis and characterization of processing techniques, high-temperatures studies, and the influence of process scale on component characteristics and behavior. Authored and reviewed by world-class academic and industrial specialists in each subject field Practical tools such as integrated case studies, user-defined process schemata, and multimedia modeling and functionality Maximizes research efficiency by collating the most important and established information in one place with integrated applets linking to relevant outside sources **Introductory Algebra** Addison-Wesley The Bittinger System for Success-Make It Work For You! Building on its reputation for accurate content and a unified system of instruction, the Tenth Edition of the Bittinger paperback series integrates success-building study tools, innovative pedagogy, and a comprehensive instructional support package with time-tested teaching techniques. **Teaching and Learning STEM A Practical Guide** John Wiley & Sons Rethink traditional teaching methods to improve student learning and retention in STEM Educational research has repeatedly shown that compared to traditional teacher-centered instruction, certain learner-centered methods lead to improved learning outcomes, greater development of critical high-level skills, and increased retention in science, technology, engineering, and mathematics (STEM) disciplines. Teaching and Learning STEM presents a trove of practical research-based strategies for designing and teaching courses and assessing students' learning. The book draws on the authors' extensive backgrounds and decades of experience in STEM education and faculty development. Its engaging and well-illustrated descriptions will equip you to implement the strategies in your courses and to deal effectively with problems (including student resistance) that might occur in the implementation. The book will help you: Plan and conduct class sessions in which students are actively engaged, no matter how large the class is Make good use of technology in face-to-face, online, and hybrid courses and flipped classrooms Assess how well students are acquiring the knowledge, skills, and conceptual understanding the course is designed to teach Help students develop expert problem-solving skills and skills in communication, creative thinking, critical thinking, high-performance teamwork, and self-directed learning Meet the learning needs of STEM students with a broad diversity of attributes and backgrounds The strategies presented in Teaching and Learning STEM don't require revolutionary time-intensive changes in your teaching, but rather a gradual integration of traditional and new methods. The result will be continual improvement in your teaching and your students' learning. **Calculus and Its Applications Expanded Version** Pearson Higher Ed 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. This is an expanded version of Calculus and its Applications, Tenth Edition, by Bittinger, Ellenbogen, and Surgent. This edition adds coverage of trigonometric functions, differential equations, sequences and series, probability distributions, and matrices. Calculus and Its Applications has become a best-selling text because of its accessible presentation that anticipates your needs. The writing style provides intuitive explanations that build on earlier mathematical experiences. Explanations are often coupled with figures to help you visualize new calculus concepts. Additionally, the text's numerous and up-to-date applications from business, economics, life sciences, and social sciences help motivate you. Algebra diagnostic and review material is available for those who need to strengthen basic skills. Every aspect of this text is designed to motivate and help you to more readily understand and apply the mathematics. **Mathematics for the Life Sciences** Princeton University Press The life sciences deal with a vast array of problems at different spatial, temporal, and organizational scales. The mathematics necessary to describe, model, and analyze these problems is similarly diverse, incorporating quantitative techniques that are rarely taught in standard undergraduate courses. This textbook provides an accessible introduction to these critical mathematical concepts, linking them to biological observation and theory while also presenting the computational tools needed to address problems not readily investigated using mathematics alone. Proven in the classroom and requiring only a background in high school math, Mathematics for the Life Sciences doesn't just focus on calculus as do most other textbooks on the subject. It covers deterministic methods and those that incorporate uncertainty, problems in discrete and continuous time, probability, graphing and data analysis, matrix modeling, difference equations, differential equations, and much more. The book uses MATLAB throughout, explaining how to use it, write code, and connect models to data in examples chosen from across the life sciences. Provides undergraduate life science students with a succinct overview of major mathematical concepts that are essential for modern biology Covers all the major quantitative concepts that national reports have identified as the ideal components of an entry-level course for life science students Provides good background for the MCAT, which now includes data-based and statistical reasoning Explicitly links data and math modeling Includes end-of-chapter homework problems, end-of-unit student projects, and select answers to homework problems Uses MATLAB throughout, and MATLAB m-files with an R supplement are available online Prepares students to read with comprehension the growing quantitative literature across the life sciences A solutions manual for professors and an illustration package is available **Discovering Advanced Algebra An Investigative Approach** Changes in society and the workplace require a careful analysis of the algebra curriculum that we teach. The curriculum, teaching, and learning of yesterday do not meet the needs of today's students. **Prealgebra** "Prealgebra is designed to meet scope and sequence requirements for a one-semester prealgebra course. The text introduces the fundamental concepts of algebra while addressing the needs of students with diverse backgrounds and learning styles. Each topic builds upon previously developed material to demonstrate the cohesiveness and structure of mathematics. Prealgebra follows a nontraditional approach in its presentation of content. The beginning, in particular, is presented as a sequence of small steps so that students gain confidence in their ability to succeed in the course. The order of topics was carefully planned to emphasize the logical progression throughout the course and to facilitate a thorough understanding of each concept. As new ideas are presented, they are explicitly related to previous topics."--BC Campus website. **Excursions in Modern Mathematics** Pearson College Division Normal 0 false false false Excursions in Modern Mathematics introduces you to the power of math by exploring applications like social choice and management science, showing that math is more than a set of formulas. Ideal for an applied liberal arts math course, Tannenbaum's text is known for its clear, accessible writing style and its unique exercise sets that build in complexity from basic to more challenging. The Eighth Edition offers more real data and applications to connect with today's readesr, expanded coverage of applications like growth, and revised exercise sets. **Craig's Restorative Dental Materials** Mosby Presenting a comprehensive exploration of restorative dental materials, this book provides the information readers need to know to correctly use dental materials in the clinic and dental laboratory. Ranging from fundamental concepts to advanced skills, it also provides the scientific basis for technical procedures and manipulation of materials. **College Algebra** Addison-Wesley Longman Beecher, Penna, and Bittinger's College Algebra is known for enabling students to "see the math" through its focus on visualization and early introduction to functions. With theFourth Edition, the authors continue to innovate by incorporating more ongoing review to help students develop their understanding and study effectively. Mid-chapter Review exercise sets have been added to give students practice in synthesizing the concepts, and new Study Summaries provide built-in tools to help them prepare for tests. The MyMathLab course (access kit required) has been expanded so that the online content is even more integrated with the text's approach, with the addition of Vocabulary, Synthesis, and Mid-chapter Review exercises from the text as well as example-based videos created by the authors. **Paperbound Books in Print Intermediate Algebra 2e Introduction to Epigenetics** Springer Nature This open access textbook leads the reader from basic concepts of chromatin structure and function and RNA mechanisms to the understanding of epigenetics, imprinting, regeneration and reprogramming. The textbook treats epigenetic phenomena in animals, as well as plants. Written by four internationally known experts and senior lecturers in this field, it provides a valuable tool for Master- and PhD- students who need to comprehend the principles of epigenetics, or wish to gain a deeper knowledge in this field. After reading this book, the student will: Have an understanding of the basic toolbox of epigenetic regulation Know how genetic and epigenetic information layers are interconnected Be able to explain complex epigenetic phenomena by understanding the structures and principles of the underlying molecular mechanisms Understand how misregulated epigenetic mechanisms can lead to disease **Developmental Mathematics** Pearson Used books, rentals, and purchases made outside of Pearson If purchasing or renting from companies other than Pearson, the access codes for the MyLab platform may not be included, may be incorrect, or may be previously redeemed. Check with the seller before completing your purchase. For courses in Developmental Mathematics. Trusted author content. Thoughtful innovation. In this revision of the Bittinger Paperback Worktext Series, the Bittinger author team brings their extensive experience to developmental math courses, paired with thoughtful integration of technology and content. The Bittinger Series enables students to get the most out of their MyLab(tm) Math course through an updated learning path, new review videos, and engaging new exercises that offer the support they need, when they need it. Bittinger offers superior content written by author-educators, tightly integrated with MyLab Math - the #1 choice in digital learning. Bringing the authors' voices and their approach into the MyLab course encourages student motivation and engagement, while reinforcing their understanding of the skills and concepts they need to master algebra. Also available with MyLab Math By combining trusted author content with digital tools and a flexible platform, MyLab Math personalizes the learning experience and improves results for each student. Note: You are purchasing a standalone product; MyLab Math does not come packaged with this content. Students, if interested in purchasing this title with MyLab Math, ask your instructor to confirm 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 Math, search for: 0135218276 / 9780135218273 Developmental Mathematics Plus MyLab Math with Pearson eText -- Access Card Package Package consists of: 013522991X / 9780135229910 Developmental Mathematics 0135243521 / 9780135243527 MyLab Math with Pearson eText -- Standalone Access Card -- for Developmental Math **Calculus & Its Applications** Pearson For one- or two-semester courses in Calculus for students majoring in business, social sciences, and life sciences. Intuition before Formality Calculus & Its Applications builds intuition with key concepts of calculus before the analytical material. For example, the authors explain the derivative geometrically before they present limits, and they introduce the definite integral intuitively via the notion of net change before they discuss Riemann sums. The strategic organization of topics makes it easy to adjust the level of theoretical material covered. The significant applications introduced early in the course serve to motivate students and make the mathematics more accessible. Another unique aspect of the text is its intuitive use of differential equations to model a variety of phenomena in Chapter 5, which addresses applications of exponential and logarithmic functions. Time-tested, comprehensive exercise sets are flexible enough to align with each instructor's needs, and new exercises and resources in MyLab™ Math help develop not only skills, but also conceptual understanding, visualization, and applications. The 14th Edition features updated exercises, applications, and technology coverage, presenting calculus in an intuitive yet intellectually satisfying way. Also available with MyLab Math MyLab™ Math is an online homework, tutorial, and assessment program designed to work with this text to engage students and improve results. Within its structured environment, students practice what they learn, test their understanding, and pursue a personalized study plan that helps them absorb course material and understand difficult concepts. In the new edition, MyLab Math has expanded to include a suite of new videos, Interactive Figures, exercises that require step-by-step solutions, conceptual questions, calculator support, and more. Note: You are purchasing a standalone product; MyLab does not come packaged with this content. Students, if interested in purchasing this title with MyLab, 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, search for: 013476868X / 9780134768687 Calculus & Its Applications plus MyLab Math with Pearson eText -- Title-Specific Access Card Package, 14/e Package consists of: 0134437772 / 9780134437774 Calculus & Its Applications 0134765699 / 9780134765693 MyLab Math with Pearson eText -- Standalone Access Card -- for Calculus & Its Applications **Intermediate Algebra Concepts & Applications** Pearson Higher Ed Normal 0 false false false The Bittinger Concepts and Applications Program delivers proven pedagogy, guiding students from skills-based math to the concepts-oriented math required for college courses. **Reticulate Evolution Symbiogenesis, Lateral Gene Transfer, Hybridization and Infectious Heredity** Springer Written for non-experts, this volume introduces

the mechanisms that underlie reticulate evolution. Chapters are either accompanied with glossaries that explain new terminology or timelines that position pioneering scholars and their major discoveries in their historical contexts. The contributing authors outline the history and original context of discovery of symbiosis, symbiogenesis, lateral gene transfer, hybridization or divergence with gene flow and infectious heredity. By applying key insights from the areas of molecular (phylo)genetics, microbiology, virology, ecology, systematics, immunology, epidemiology and computational science, they demonstrate how reticulate evolution impacts successful survival, fitness and speciation. Reticulate evolution brings forth a challenge to the standard Neo-Darwinian framework, which defines life as the outcome of bifurcation and ramification patterns brought forth by the vertical mechanism of natural selection. Reticulate evolution puts forward a pattern in the tree of life that is characterized by horizontal mergings and lineage crossings induced by symbiosis, symbiogenesis, lateral gene transfer, hybridization or divergence with gene flow and infective heredity, making the "tree of life" look more like a "web of life." On an epistemological level, the various means by which hereditary material can be transferred horizontally challenges our classic notions of units and levels of evolution, fitness, modes of transmission, linearity, communities and biological individuality. The case studies presented examine topics including the origin of the eukaryotic cell and its organelles through symbiogenesis; the origin of algae through primary and secondary symbiosis and dinoflagellates through tertiary symbiosis; the superorganism and holobiont as units of evolution; how endosymbiosis induces speciation in multicellular life forms; transferrable and non-transferrable plasmids and how they symbiotically interact with their host; the means by which pro- and eukaryotic organisms transfer genes laterally (bacterial transformation, transduction and conjugation as well as transposons and other mobile genetic elements); hybridization and divergence with gene flow in sexually-reproducing individuals; current (human) microbiome and virome studies that impact our knowledge concerning the evolution of organismal health and acquired immunity; and how symbiosis and symbiogenesis can be modelled in computational evolution. **Managing Sport Facilities and Major Events Second Edition** Taylor & Francis Sport events are inextricably linked to the places in which they are hosted. High-profile events require high-quality venues, and the proper management of facilities is crucial to their success. Now in a fully revised and updated new edition, Managing Sport Facilities and Major Events is still the only textbook to introduce the fundamentals of sport facility and event management in an international context. With detailed real-world case studies and insights from professional practice, this book offers a systematic guide to the management issues and practical problems that sports managers must address to ensure financial, sporting, and ethical success. It covers all the key aspects of sport facility and major event management including the bidding process, facility development, risk analysis, budgeting, marketing, branding, and quality assurance, as well as completely new chapters on analytics, impact, and legacy. Now supported by a companion website containing slides, test banks, a glossary, and sample syllabus, this is an invaluable resource for students and practitioners alike and is essential to any course on sport facilities, event management or sport administration. **Thomas' Calculus** Pearson Education India **Precalculus Mathematics for Calculus** Brooks/Cole Publishing Company In this best selling Precalculus text, the authors explain concepts simply and clearly, without glossing over difficult points. This comprehensive, evenly-paced book provides complete coverage of the function concept and integrates substantial graphing calculator materials that help students develop insight into mathematical ideas. This author team invests the same attention to detail and clarity as Jim Stewart does in his market-leading Calculus text. **Precalculus**