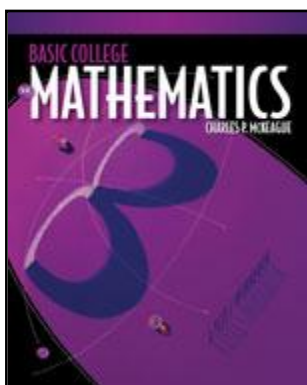


MATH



Basic College Mathematics: A Text/Workbook, 3rd Edition

Charles P. McKeague - Cuesta Community College

|

SBN-10: 084005310X ISBN-13: 9780840053107

736 Pages Paperbound

© 2011 Published

[Student Companion Site](#) | [Instructor Companion Site](#)

OVERVIEW

Pat McKeague's passion and dedication to teaching mathematics and his ongoing participation in mathematical organizations provides the most current and reliable textbook series for both instructors and students. When writing a textbook, Pat McKeague's main goal is to write a textbook that is user-friendly. Students develop a thorough understanding of the concepts essential to their success in mathematics with his attention to detail, exceptional writing style, and organization of mathematical concepts. BASIC COLLEGE MATHEMATICS: A TEXT/WORKBOOK, Third Edition offers a unique and effortless way to teach your course, whether it is a traditional lecture course or a self-paced format. In a lecture-course format, each section can be taught in 45-to-50-minute class sessions, affording instructors a straightforward way to prepare and teach their course. In a self-paced format, Pat's proven EPAS approach (Example, Practice Problem, Answer and Solution) moves students through each new concept with ease and assists students in breaking up their problem-solving into manageable steps. The Third Edition of BASIC COLLEGE MATHEMATICS has new features that will further enhance your students' learning, including boxed features entitled Improving Your Quantitative Literacy, Getting Ready for Chapter Problems, Section Objectives, and Enhanced and Expanded Review Problems. These features are designed so you can students to practice and reinforce conceptual learning. Furthermore, Enhanced WebAssign for Developmental Math, is an assignable assessment and algorithmic homework system that consists of videos, tutorials and active examples keyed to problem level.

TABLE OF CONTENTS

1. WHOLE NUMBERS.

Place Value and Names for Numbers. Addition with Whole Numbers, and Perimeter. Rounding numbers, Estimating Answers, and Displaying Information. Subtraction with Whole Numbers. Multiplication with Whole Numbers, and Area. Division with Whole Numbers. Exponents and Order of Operations. Summary. Review. Test. Projects.

2. FRACTIONS AND MIXED NUMBERS.

Meaning and Properties of Fractions. Prime Numbers, Factors, and Reducing to Lowest Terms. Multiplication with Fractions, and the Area of a Triangle. Division with Fractions. Addition and Subtraction with Fractions. Mixed-Number Notation. Multiplication and Division with Mixed Numbers. Addition and Subtraction with Mixed Numbers. Combinations of Operations and Complex Fractions. Summary. Review. Cumulative Review. Test. Projects.

3. DECIMALS.

Decimal Notation and Place Value. Addition and Subtraction with Decimals. Multiplication with Decimals. Division with Decimals. Fractions and Decimals. Square Roots and the Pythagorean Theorem. Summary. Review. Cumulative Review. Test. Projects.

4. RATIO AND PROPORTION.

Ratios, Rates, and Unit Pricing. Proportions. Applications. Similar Figures. Summary. Review. Cumulative Review. Test. Projects.

5. PERCENT.

Percents, Decimals, and Fractions. Basic Percent Problems. General Applications of Percents.

Sales Tax and Commission. Percent Increase or Decrease, and Discount. Interest. Summary. Review. Cumulative Review. Test. Projects.

6. DESCRIPTIVE STATISTICS.

Mean, Median, and Mode. Tables and Bar Charts. Scatter Diagrams and Line Graphs. Pie Charts. Summary. Review. Cumulative Review. Test. Projects.

7. MEASUREMENT.

Length. Area and Volume. Weight. Converting between the Two Systems, and Temperature. Summary. Review. Cumulative Review. Test. Projects.

8. GEOMETRY.

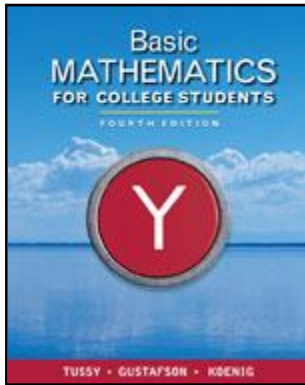
Perimeter and Circumference. Area. Volume. Angles and Triangles. Summary. Review. Cumulative Review. Test. Projects.

9. INTRODUCTION TO ALGEBRA.

Positive and Negative Numbers. Addition with Negative Numbers. Subtraction with Negative Numbers. Multiplication with Negative Numbers. Division with Negative Numbers. Summary. Review. Cumulative Review. Test. Projects.

10. SOLVING EQUATIONS.

The Distributive Property and Algebraic Expressions. The Addition Property of Equality. The Multiplication Property of Equality. Linear Equations in One Variable. Applications. Summary. Review. Cumulative Review. Test. Projects.



Basic Mathematics for College Students, 4th Edition

Alan S. Tussy - Citrus College

R. David Gustafson - Rock Valley College (Emeritus)

Diane Koenig - Rock Valley College

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944 Pages Paperbound

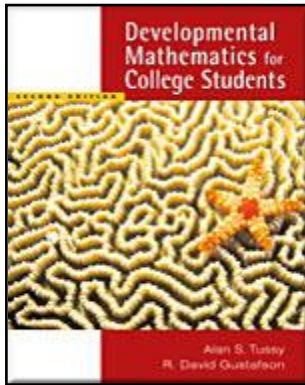
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Student Companion Site

OVERVIEW

Offering a uniquely modern, balanced approach, Tussy/Gustafson/Koenig's BASIC MATHEMATICS FOR COLLEGE STUDENTS, Fourth Edition, integrates the best of traditional drill and practice with the best elements of the reform movement. To many developmental math students, mathematics is like a foreign language. They have difficulty translating the words, their meanings, and how they apply to problem solving. Emphasizing the "language of mathematics," the text's fully integrated learning process is designed to expand students' reasoning abilities and teach them how to read, write, and think mathematically. It blends instructional approaches that include vocabulary, practice, and well-defined pedagogy with an emphasis on reasoning, modeling, communication, and technology skills.

1. WHOLE NUMBERS.
 2. THE INTEGERS.
 3. FRACTIONS AND MIXED NUMBERS.
 4. DECIMALS.
 5. RATIO, PROPORTION, AND MEASUREMENT.
 6. PERCENT.
 7. GRAPHS AND STATISTICS.
 8. AN INTRODUCTION TO ALGEBRA.
 9. AN INTRODUCTION TO GEOMETRY.
- Appendix I: Addition and Multiplication Facts.
Appendix II: Polynomials.
Appendix III: Inductive and Deductive Reasoning.
Appendix IV: Roots and Powers.
Appendix X: Answers to Selected Exercises.



Developmental Mathematics for College Students, 2nd Edition

Alan S. Tussy - Citrus College

R. David Gustafson - Rock Valley College (Emeritus)

ISBN-10: 0534997767 ISBN-13: 9780534997762

1200 Pages Paperbound

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includes CD-ROM and Enhanced iLrn™ Tutorial, iLrn™ Math

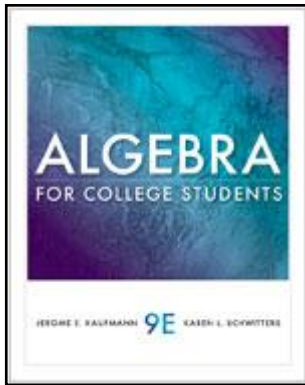
Tutorial, The Learning Equation Labs, Student Resource Center Printed Access Card

OVERVIEW

Tussy and Gustafson's fully integrated learning process is designed to expand students' reasoning abilities and teach them how to read, write, and think mathematically. In this text, students get a thorough review of arithmetic and geometry along with all the topics covered in a standard elementary algebra course. The authors build the strong mathematical foundation necessary to give students confidence to apply their newly acquired skills in further mathematics courses, at home, or on the job.

TABLE OF CONTENTS

1. WHOLE NUMBERS.
 2. THE INTEGERS.
 3. FRACTIONS AND MIXED NUMBERS.
 4. DECIMALS.
 5. PERCENT.
 6. DESCRIPTIVE STATISTICS.
 7. INTRODUCTION TO GEOMETRY.
 8. ALGEBRAIC EXPRESSIONS, EQUATIONS AND INEQUALITIES.
 9. GRAPHS, LINEAR EQUATIONS, AND FUNCTIONS.
 10. EXPONENTS AND POLYNOMIALS.
 11. FACTORING AND QUADRATIC EQUATIONS.
 12. RATIONAL EXPRESSIONS AND EQUATIONS.
 13. SOLVING SYSTEMS OF EQUATIONS AND INEQUALITIES.
 14. ROOTS AND RADICALS.
 15. QUADRATIC EQUATIONS.
- Appendices:
- A. Inductive and Deductive Reasoning.
 - B. Measurement.
 - C. Additional Algebraic Topics.
 - D. THEA Practice Tests.



Algebra for College Students, 9th Edition

Jerome E. Kaufmann - Western Illinois University (Retired)

Karen L. Schwitters - Seminole Community College

ISBN-10: 0538733543 ISBN-13: 9780538733540

832 Pages Casebound

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Student Companion Site | Instructor Companion Site
EWA

OVERVIEW

Kaufmann and Schwitters have built this text's reputation on clear and concise exposition, numerous examples, and plentiful problem sets. This traditional text consistently reinforces the following common thread: learn a skill; practice the skill to help solve equations; and then apply what you have learned to solve application problems. This simple, straightforward approach has helped many students grasp and apply fundamental problem solving skills necessary for future mathematics courses. Algebraic ideas are developed in a logical sequence, and in an easy-to-read manner, without excessive vocabulary and formalism.

The open and uncluttered design helps keep students focused on the concepts while minimizing distractions. Problems and examples reference a broad range of topics, as well as career areas such as electronics, mechanics, and health, showing students that mathematics is part of everyday life.

The text's resource package—anchored by Enhanced WebAssign, an online homework management tool—saves instructors time while also providing additional help and skill-building practice for students outside of class.

TABLE OF CONTENTS

1. BASIC CONCEPTS AND PROPERTIES.

Sets, Real Numbers, and Numerical Expressions. Operations with Real Numbers. Properties of Real Numbers and the Use of Exponents. Algebraic Expressions. Chapter 1 Summary. Chapter 1 Review Problem Set. Chapter 1 Test.

2. EQUATIONS, INEQUALITIES, AND PROBLEM SOLVING.

Solving First-Degree Equations. Equations Involving Fractional Forms. Equations Involving Decimals and Problem Solving. Formulas. Inequalities. More on Inequalities and Problem Solving. Equations and Inequalities Involving Absolute Value. Chapter 2 Summary. Chapter 2 Review Problem Set. Chapter 2 Test.

3. POLYNOMIALS.

Polynomials: Sums and Differences. Products and Quotients of Monomials. Multiplying Polynomials. Factoring: Use of the Distributive Property. Factoring: Difference of Two Squares and Sum or Difference of Two Cubes. Factoring Trinomials. Equations and Problem Solving. Chapter 3 Summary. Chapter 3 Review Problem Set. Chapter 3 Test. Cumulative Review Problem Set (Chapters 1–3).

4. RATIONAL EXPRESSIONS.

Simplifying Rational Expressions. Multiplying and Dividing Rational Expressions. Adding and Subtracting Rational Expressions. More on Rational Expressions and Complex Fractions. Dividing Polynomials. Fractional Equations. More Fractional Equations and Applications. Chapter 4 Summary. Chapter 4 Review Problem Set. Chapter 4 Test.

5. EXPONENTS AND RADICALS.

Using Integers as Exponents. Roots and Radicals. Combining Radicals and Simplifying Radicals That Contain Variables. Products and Quotients Involving Radicals. Equations Involving Radicals. Merging Exponents and Roots. Scientific Notation. Chapter 5 Summary. Chapter 5 Review Problem Set. Chapter 5 Test.

6. QUADRATIC EQUATIONS AND INEQUALITIES.

Complex Numbers. Quadratic Equations. Completing the Square. Quadratic Formula. More Quadratic Equations and Applications. Quadratic and Other Nonlinear Inequalities. Chapter 6

Summary. Chapter 6 Review Problem Set. Chapter 6 Test. Cumulative Review Problem Set (Chapters 1–6).

7. LINEAR EQUATIONS AND INEQUALITIES IN TWO VARIABLES.

Rectangular Coordinate System and Linear Equations. Graphing Nonlinear Equations. Linear Inequalities in Two Variables. Distance and Slope. Determining the Equation of a Line. Chapter 7 Summary. Chapter 7 Review Problem Set. Chapter 7 Test.

8. FUNCTIONS.

Concept of a Function. Linear Functions and Applications. Quadratic Functions. More Quadratic Functions and Applications. Transformations of Some Basic Curves. Combining Functions. Direct and Inverse Variation. Chapter 8 Summary. Chapter 8 Review Problem Set. Chapter 8 Test.

9. POLYNOMIAL AND RATIONAL FUNCTIONS.

Synthetic Division. Remainder and Factor Theorems. Polynomial Equations. Graphing Polynomial Functions. Graphing Rational Functions. More on Graphing Rational Functions. Chapter 9 Summary. Chapter 9 Review Problem Set. Chapter 9 Test.

10. EXPONENTIAL AND LOGARITHMIC FUNCTIONS.

Exponents and Exponential Functions. Applications of Exponential Functions. Inverse Functions. Logarithms. Logarithmic Functions. Exponential Equations, Logarithmic Equations, and Problem Solving. Chapter 10 Summary. Chapter 10 Review Problem Set. Chapter 10 Test. Cumulative Review Problem Set (Chapters 1–10).

11. SYSTEMS OF EQUATIONS.

Systems of Two Linear Equations in Two Variables. Systems of Three Linear Equations in Three Variables. Matrix Approach to Solving Linear Systems. Determinants. Cramer's Rule. Partial Fractions (optional). Chapter 11 Summary. Chapter 11 Review Problem Set. Chapter 11 Test.

12. ALGEBRA OF MATRICES.

Algebra of Matrices. Multiplicative Inverses. Matrices. Systems of Linear Inequalities: Linear Programming. Chapter 12 Summary. Chapter 12 Review Problem Set. Chapter 12 Test.

13. CONIC SECTIONS.

Circles. Parabolas. Ellipses. Hyperbolas. Systems Involving Nonlinear Equations. Chapter 13 Summary. Chapter 13 Review Problem Set. Chapter 13 Test.

14. SEQUENCES AND MATHEMATICAL INDUCTION.

Arithmetic Sequences. Geometric Sequences. Another Look at Problem Solving. Mathematical Induction. Chapter 14 Summary. Chapter 14 Review Problem Set. Chapter 14 Test.

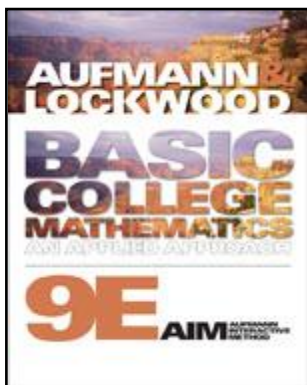
Appendix A: Prime Numbers and Operations with Fractions.

Appendix B: Binomial Theorem.

Answers to Odd-Numbered Problems and All Chapter Review, Chapter Test, Cumulative Review, and Appendix A Problems.

Answers to Selected Even-Numbered Problems.

Index I-1.



Basic College Mathematics: An Applied Approach, 9th Edition

Richard N. Aufmann - Palomar College

Joanne S. Lockwood - Nashua Community College

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704 Pages Casebound

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Student Companion Site | Instructor Companion Site
EWA

OVERVIEW

As in previous editions, the focus in BASIC COLLEGE MATHEMATICS: AN APPLIED APPROACH remains on the Aufmann Interactive Method (AIM). Students are encouraged to be active participants in the classroom and in their own studies as they work through the How To examples and the paired Examples and You Try It problems. The role of "active participant" is crucial to success. Presenting students with worked examples, and then providing them with the opportunity to immediately work similar problems, helps them build their confidence and eventually master the concepts.

To this point, simplicity plays a key factor in the organization of this edition, as in all other editions. All lessons, exercise sets, tests, and supplements are organized around a carefully-constructed hierarchy of objectives. This "objective-based" approach not only serves the needs of students, in terms of helping them to clearly organize their thoughts around the content, but instructors as well, as they work to design syllabi, lesson plans, and other administrative documents.

The Ninth Edition features a new design, enhancing the Aufmann Interactive Method and the organization of the text around objectives, making the pages easier for both students and instructors to follow.

TABLE OF CONTENTS

1. WHOLE NUMBERS.

Introduction to Whole Numbers. Addition of Whole Numbers. Subtraction of Whole Numbers. Multiplication of Whole Numbers. Division of Whole Numbers. Exponential Notation and the Order of Operations Agreement. Prime Numbers and Factoring. Focus on Problem Solving: Questions to Ask. Projects and Group Activities: Order of Operations; Patterns in Mathematics; Search the World Wide Web.

2. FRACTIONS.

The Least Common Multiple and Greatest Common Factor. Introduction to Fractions. Writing Equivalent Fractions. Addition of Fractions and Mixed Numbers. Subtraction of Fractions and Mixed Numbers. Multiplication of Fractions and Mixed Numbers. Division of Fractions and Mixed Numbers. Order, Exponents, and the Order of Operations Agreement. Focus on Problem Solving: Common Knowledge. Projects and Group Activities: Music; Construction; Fractions of Diagrams.

3. DECIMALS.

Introduction to Decimals. Addition of Decimals. Subtraction of Decimals. Multiplication of Decimals. Division of Decimals. Comparing and Converting Fractions and Decimals. Focus on Problem Solving: Relevant Information. Projects and Group Activities: Fractions as Terminating or Repeating Decimals.

4. RATIO AND PROPORTION.

Ratio. Rates. Proportions. Focus on Problem Solving: Looking for a Pattern. Projects and Group Activities: The Golden Ratio; Drawing the Floor Plans for a Building; The U.S. House of Representatives.

5. PERCENTS.

Introduction to Percents. Percent Equations: Part I. Percent Equations: Part II. Percent Equations: Part III. Percent Problems: Proportion Method. Focus on Problem Solving: Using a Calculator as a Problem-Solving Tool; Using Estimation as a Problem-Solving Tool. Projects

and Group Activities: Health; Consumer Price Index.

6. APPLICATIONS FOR BUSINESS AND CONSUMERS.

Applications to Purchasing. Percent Increase and Percent Decrease. Interest. Real Estate Expenses. Car Expenses. Wages. Bank Statements. Focus on Problem Solving:

Counterexamples Projects and Group Activities: Buying a Car.

7. STATISTICS AND PROBABILITY.

Pictographs and Circle Graphs. Bar Graphs and Broken-Line Graphs. Histograms and Frequency Polygons. Statistical Measures. Introduction to Probability. Focus on Problem Solving: Inductive Reasoning. Projects and Group Activities: Deceptive Graphs; Collecting, Organizing, Displaying, and Analyzing Data.

8. U.S. CUSTOMARY UNITS OF MEASUREMENT.

Length. Weight. Capacity. Time. Energy and Power. Focus on Problem Solving: Applying Solutions to Other Problems. Projects and Group Activities: Nomographs; Averages.

9. THE METRIC SYSTEM OF MEASUREMENT.

Length. Mass. Capacity. Energy. Conversion Between the U.S. Customary and the Metric Systems of Measurement. Focus on Problem Solving: Working Backward. Projects and Group Activities: Name That Metric Unit; Metric Measurements for Computers.

10. RATIONAL NUMBERS.

Introduction to Integers. Addition and Subtraction of Integers. Multiplication and Division of Integers. Operations with Rational Numbers. Scientific Notation and the Order of Operations Agreement. Focus on Problem Solving: Drawing Diagrams. Projects and Group Activities: Deductive Reasoning.

11. INTRODUCTION TO ALGEBRA.

Variable Expressions. Introduction to Equations. General Equations: Part I. General Equations: Part II. Translating Verbal Expressions into Mathematical Expressions. Translating Sentences into Equations and Solving. Focus on Problem Solving: From Concrete to Abstract. Projects and Group Activities: Averages.

12. GEOMETRY.

Angles, Lines, and Geometric Figures. Plane Geometric Figures. Area. Volume. The Pythagorean Theorem. Similar and Congruent Triangles. Focus on Problem Solving: Trial and Error. Projects and Group Activities: Investigating Perimeter; Symmetry.

Final Exam.

Appendix.

Table of Geometric Formulas.

Compound Interest Table.

Monthly Payment Table.

Table of Measurements.

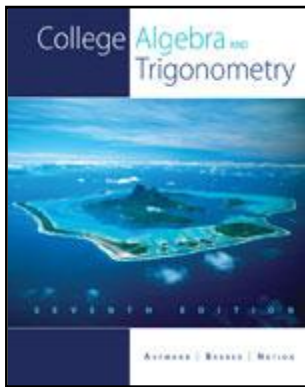
Table of Properties.

Solutions to You-Try-Its.

Answers to Selected Exercises.

Glossary.

Index.



College Algebra and Trigonometry, 7th Edition

Richard N. Aufmann - Palomar College

Vernon C. Barker - Palomar College

Richard D. Nation - Palomar College

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1080 Pages Casebound

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Student Companion Site | Instructor Companion Site

EWA

OVERVIEW

Accessible to students and flexible for instructors, COLLEGE ALGEBRA AND TRIGONOMETRY, Seventh Edition, uses the dynamic link between concepts and applications to bring mathematics to life. By incorporating interactive learning techniques, the Aufmann team helps students to better understand concepts, work independently, and obtain greater mathematical fluency. The text also includes technology features to accommodate courses that allow the option of using graphing calculators. The authors' proven Aufmann Interactive Method allows students to try a skill as it is presented in example form. This interaction between the examples and Try Exercises serves as a checkpoint to students as they read the textbook, do their homework, or study a section. In the Seventh Edition, Review Notes are featured more prominently throughout the text to help students recognize the key prerequisite skills needed to understand new concepts.

TABLE OF CONTENTS

Each chapter concludes with Exploring Concepts with Technology, Summary, Assessing Concepts, Review Exercises, Quantitative Reasoning, Chapter Test, and Cumulative Review Exercises.

P. PRELIMINARY CONCEPTS.

The Real Number System. Integer and Rational Number Exponents. Polynomials. Factoring. Rational Expressions. Complex Numbers.

1. EQUATIONS AND INEQUALITIES.

Linear and Absolute Value Equations. Formulas and Applications. Quadratic Equations. Other Types of Equations. Inequalities. Variation and Applications.

2. FUNCTIONS AND GRAPHS.

A Two Dimensional Coordinate System and Graphs. Introduction to Functions. Linear Functions. Quadratic Functions. Properties of Graphs. The Algebra of Functions. Modeling Data Using Regression.

3. POLYNOMIAL AND RATIONAL FUNCTIONS.

The Remainder Theorem and the Factor Theorem. Polynomial Functions of Higher Degree. Zeros of Polynomial Functions. The Fundamental Theorem of Algebra. Graphs of Rational Functions and Their Applications.

4. EXPONENTIAL AND LOGARITHMIC FUNCTIONS.

Inverse Functions. Exponential Functions and Their Applications. Logarithmic Functions and Their Applications. Properties of Logarithms and Logarithmic Scales. Exponential and Logarithmic Equations. Exponential Growth and Decay. Modeling Data with Exponential and Logarithmic Functions.

5. TRIGONOMETRIC FUNCTIONS.

Angles and Arcs. Right Triangle Trigonometry. Trigonometric Functions of Any Angle. Trigonometric Functions of Real Numbers. Graphs of the Sine and Cosine Functions. Graphs of the Other Trigonometric Functions. Graphing Techniques. Harmonic Motion--An Application of the Sine and Cosine Functions.

6. TRIGONOMETRIC IDENTITIES AND EQUATIONS.

Verification of Trigonometric Identities. Sum, Difference, and Cofunction Identities. Double- and Half-Angle Identities. Identities Involving the Sum of Trigonometric Functions. Inverse Trigonometric Functions. Trigonometric Equations.

7. APPLICATIONS OF TRIGONOMETRY.

The Law of Sines. The Law of Cosines and Area. Vectors. Trigonometric Form of Complex Numbers. De Moivre's Theorem.

8. TOPICS IN ANALYTIC GEOMETRY.

Parabolas. Ellipses. Hyperbolas. Rotation of Axes. Introduction to Polar Coordinates. Polar Equations of the Conics. Parametric Equations.

9. SYSTEMS OF EQUATIONS AND INEQUALITIES.

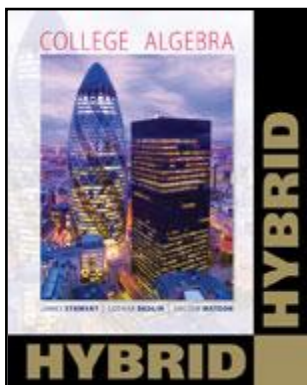
Systems of Linear Equations in Two Variables. Systems of Linear Equations in More than Two Variables. Nonlinear Systems of Equations. Partial Fractions. Inequalities in Two Variables and Systems of Inequalities. Linear Programming.

10. MATRICES.

Gaussian Elimination Method. The Algebra of Matrices. The Inverse of a Matrix. Determinants. Cramer's Rule.

11. SEQUENCES, SERIES, AND PROBABILITY.

Infinite Sequences and Summation Notation. Arithmetic Sequences and Series. Geometric Sequences and Series. Mathematical Induction. The Binomial Theorem. Permutations and Combinations. Introduction to Probability.



College Algebra, Hybrid, 1st Edition

James Stewart - McMaster University

Lothar Redlin - Pennsylvania State University, Abington Campus

Saleem Watson - California State University, Long Beach

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480 Pages Paperbound

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[Student Companion Site](#) | [Instructor Companion Site](#)
[WebAssign](#)

OVERVIEW

Designed for the college algebra course in which all homework is assigned online, COLLEGE ALGEBRA HYBRID, First Edition, provides the content needed for the traditional, lecture-based course while offering the convenience of a smaller, less expensive text.

TABLE OF CONTENTS

P. PREREQUISITES.

Modeling the Real World with Algebra. Real Numbers and Their Properties. The Real Number Line and Order. Integer Exponents. Rational Exponents and Radicals. Algebraic Expressions. Discovery Project Visualizing a Formula. Factoring. Rational Expressions. Chapter P Review. Chapter P Test. Focus on Problem Solving General Principles.

1. EQUATIONS AND INEQUALITIES.

Basic Equations. Modeling with Equations. Discovery Project Equations Through the Ages. Quadratic Equations. Complex Numbers. Other Types of Equations. Inequalities. Absolute Value Equations and Inequalities. Chapter 1 Review. Chapter 1 Test. Focus on Modeling Making the Best Decisions.

2. COORDINATES AND GRAPHS.

The Coordinate Plane. Discovery Project Visualizing Data. Graphs of Equations in Two Variables. Graphing Calculators: Solving Equations and Inequalities Graphically. Lines. Making Models Using Variation. Chapter 2 Review. Chapter 2 Test. Cumulative Review Test: Chapters 1 and 2. Focus on Modeling Fitting Lines to Data.

3. FUNCTIONS.

What is a Function? Graphs of Functions. Discovery Project Relations and Functions. Getting Information from the Graph of a Function. Average Rate of Change of a Function. Transformations of Functions. Combining Functions. Discovery Project Iteration and Chaos. One-to-One Functions and Their Inverses. Chapter 3 Review. Chapter 3 Test. Focus on Modeling with Functions.

4. POLYNOMIALS AND RATIONAL FUNCTIONS.

Quadratic Functions and Models. Polynomial Functions and Their Graphs. Dividing Polynomials. Real Zeros of Polynomials. Discovery Project Zeroing in on a Zero. Complex Zeros and the Fundamental Theorem of Algebra. Rational Functions. Chapter 4 Review. Chapter 4 Test. Focus on Modeling Fitting Polynomial Curves to Data.

5. EXPONENTIAL AND LOGARITHMIC FUNCTIONS.

Exponential Functions. Discovery Project Exponential Explosion. Logarithmic Functions. Laws of Logarithms. Exponential and Logarithmic Equations. Modeling with Exponential and Logarithmic Functions. Chapter 5 Review. Chapter 5 Test. Cumulative Review Test: Chapters 3, 4, and 5. Focus on Modeling Fitting Exponential and Power Curves to Data.

6. SYSTEMS OF EQUATIONS AND INEQUALITIES.

Systems of Equations. Systems of Linear Equations in Two Variables. Systems of Linear Equations in Several Variables. DISCOVERY PROJECT Best Fit Versus Exact Fit. Partial Fractions. Systems of Inequalities. Chapter 6 Review. Chapter 6 Test. Focus on Modeling Linear Programming.

7. MATRICES AND DETERMINANTS.

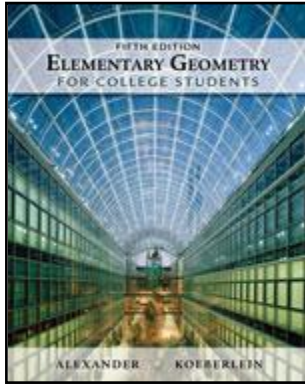
Matrices and Systems of Linear Equations. The Algebra of Matrices. Discovery Project Will the Species Survive? Inverses of Matrices and Matrix Equations. Determinants and Cramer's Rule. Chapter 7 Review. Chapter 7 Test. Focus on Modeling Computer Graphics.

8. CONIC SECTIONS.

Parabolas. Discovery Project Rolling Down a Ramp. Ellipses. Hyperbolas. Shifted Conics. Chapter 8 Review. Chapter 8 Test. Cumulative Review Test: Chapters 6, 7, and 8. Focus on Modeling Conics in Architecture.

9. SEQUENCES AND SERIES.

Sequences and Summation Notation. Arithmetic Sequences. Geometric Sequences. Discovery Project Finding Patterns. Mathematics of Finance. Mathematical Induction. The Binomial Theorem. Chapter 9 Review. Chapter 9 Test. Focus on Modeling with Recursive Sequences.



Elementary Geometry for College Students, 5th Edition

Daniel C. Alexander - Parkland College

Geralyn M. Koeberlein - Mahomet-Seymour High School

ISBN-10: 1439047901 ISBN-13: 9781439047903

624 Pages Casebound

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[Student Companion Site](#) | [Instructor Companion Site](#)

OVERVIEW

Building on the success of its first four editions, the Fifth Edition of this market-leading text covers the important principles and real-world applications of plane geometry, with a new chapter on locus and concurrence and by adding 150-200 new problems including 90 designed to be more rigorous. Strongly influenced by both NCTM and AMATYC standards, the text takes an inductive approach that includes integrated activities and tools to promote hands-on application and discovery.

TABLE OF CONTENTS

1. LINE AND ANGLE RELATIONSHIPS.

Sets, Statements, and Reasoning. Informal Geometry and Measurement. Early Definitions and Postulates. Angles and Their Relationships. Introduction to Geometric Proof. Relationships: Perpendicular Lines. The Formal Proof of a Theorem. Perspective on History: The Development of Geometry. Perspective on Application: Patterns.

2. PARALLEL LINES.

The Parallel Postulate and Special Angles. Indirect Proof. Proving Lines Parallel. The Angles of a Triangle. Convex Polygons. Symmetry and Transformations. Perspective on History: Sketch of Euclid. Perspective on Application: Non-Euclidean Geometries.

3. TRIANGLES.

Congruent Triangles. Corresponding Parts of Congruent Triangles. Isosceles Triangles. Basic Constructions Justified. Inequalities in a Triangle. Perspective on History: Sketch of Archimedes. Perspective on Application: Pascal's Triangle.

4. QUADRILATERALS.

Properties of a Parallelogram. The Parallelogram and Kite. The Rectangle, Square, and Rhombus. The Trapezoid. Perspective on History: Sketch of Thales. Perspective on Application: Square Numbers as Sums.

5. SIMILAR TRIANGLES.

Ratios, Rates, and Proportions. Similar Polygons. Proving Triangles Similar. The Pythagorean Theorem. Special Right Triangles. Segments Divided Proportionally. Perspective on History: Ceva's Theorem. Perspective on Application: An Unusual Application of Similar Triangles.

6. CIRCLES.

Circles and Related Segments and Angles. More Angle Measures in the Circle. Line and Segment Relationships in the Circle. Some Constructions and Inequalities for the Circle. Perspective on History: Circumference of the Earth. Perspective on Application: Sum of the Interior Angles of a Polygon.

7. LOCUS AND CONCURRENCE.

Locus of Points. Concurrence of Lines. More About Regular Polygons. Perspective on History: The Value of Perspective on Application: The Nine-Point Circle.

8. AREAS OF POLYGONS AND CIRCLES.

Area and Initial Postulates. Perimeter and Area of Polygons. Regular Polygons and Area. Circumference and Area of a Circle. More Area Relationships in the Circle. Perspective on History: Sketch of Pythagoras. Perspective on Application: Another Look at the Pythagorean Theorem.

9. SURFACES AND SOLIDS.

Prisms, Area, and Volume. Pyramids, Area, and Volume. Cylinders and Cones. Polyhedrons and Spheres. Perspective on History: Sketch of Rene Descartes. Perspective on Application: Birds in Flight.

10. ANALYTIC GEOMETRY.

The Rectangular Coordinate System. Graphs of Linear Equations and Slope. Preparing to do Analytic Proofs. Analytic Proofs. Equations of Lines. Perspective on History: The Banach-Tarski Paradox. Perspective on Application: The Point-of-Division Formulas.

11. INTRODUCTION TO TRIGONOMETRY.

The Sine Ratio and Applications. The Cosine Ratio and Applications. The Tangent Ratio and Other Ratios. Applications with Acute Triangles. Perspective on History: Sketch of Plato. Perspective on Application: Radian Measure of Angles.

APPENDICES.

Appendix A: Algebra review. Appendix B: Summary of Constructions, Postulates, and Theorems and Corollaries.



Understanding Elementary Algebra with Geometry: A Course for College Students, 6th Edition

Lewis R. Hirsch - Rutgers University

Arthur Goodman - College of the City University of New York

ISBN-10: 0534999727 ISBN-13: 9780534999728

704 Pages Casebound

© 2006 Published

**Student Companion Site | Instructor Companion Site
includes CD-ROM and iLrn™ Tutorial**

OVERVIEW

Hirsch and Goodman offer a mathematically sound, rigorous text to those instructors who believe students should be challenged. The text prepares students for future study in higher-level courses by gradually building students' confidence without sacrificing rigor. To help students move beyond the "how" of algebra (computational proficiency) to the "why" (conceptual understanding), the authors introduce topics at an elementary level and return to them at increasing levels of complexity. Their gradual introduction of concepts, rules, and definitions through a wealth of illustrative examples -- both numerical and algebraic--helps students compare and contrast related ideas and understand the sometimes-subtle distinctions among a variety of situations. This author team carefully prepares students to succeed in higher-level mathematics.

TABLE OF CONTENTS

1. THE INTEGERS.

What is Algebra? Introduction and Basic Notation. Integers. Adding Integers. Subtracting Integers. Multiplying and Dividing Integers. The Real Number System.

2. ALGEBRAIC EXPRESSIONS.

Variables and Exponents. Algebraic Substitution. The Distributive Property and Combining Like Terms. Simplifying Algebraic Expressions. Translating Phrases and Sentences Algebraically.

3. FIRST-DEGREE EQUATIONS AND INEQUALITIES.

Types of Equations. Solving First-Degree Equations in One Variable and Applications. More First-Degree Equations and Applications. Types of Inequalities and Basic Properties of Inequalities. Solving First-Degree Inequalities in One Variable and Applications.

4. RATIONAL EXPRESSIONS.

Fundamental Principle of Fractions. Multiplying and Dividing Rational Expressions. Adding and Subtracting Rational Expressions. Solving Fractional Equations and Inequalities. Ratio and Proportion. Applications.

5. GRAPHING STRAIGHT LINES.

The Rectangular (Cartesian) Coordinate System. Graphing a Linear Equation in Two Variables. The Slope. The Equation of a Line.

6. INTERPRETING GRAPHS AND SYSTEMS OF LINEAR EQUATIONS.

Interpreting Graphs. Solving Systems of Linear Equations: Graphical Method. Solving Systems of Linear Equations: Algebraic Methods. Applications.

7. EXPONENTS AND POLYNOMIALS.

Exponent Rules. Zero and Negative Exponents. Scientific Notation. Introduction to Polynomials. Multiplying Polynomials. Special Products.

8. FACTORING.

Common Factors. Factoring Trinomials. More Factoring. Solving Polynomial Equations by Factoring. Dividing Polynomials.

9. MORE RATIONAL EXPRESSIONS.

Reducing Rational Expressions. Multiplying and Dividing Rational Expressions. Adding and Subtracting Rational Expressions. Fractional Equations. Literal Equations. Applications.

10. RADICAL EXPRESSIONS AND EQUATIONS.

Definitions and Basic Notation. Properties of Radicals and Simplest Radical Form. Adding and Subtracting Radical Expressions. Multiplying and Dividing Radical Expressions. Radical

Equations.

11. QUADRATIC EQUATIONS.

The Factoring and Square Root Methods. The Method of Completing the Square. The Quadratic Formula. Choosing a Method. Applications. Graphing Quadratic Equations.

12. GEOMETRY.

Angles. Triangles. Congruence. Similarity. Quadrilaterals. Perimeter and Area. Circles. Solid Geometry.

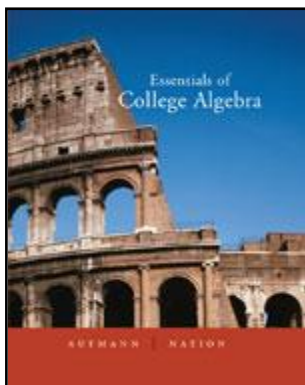
Appendix A: A Review of Arithmetic.

Fractions. Multiplying and Dividing Fractions. Adding and Subtracting Fractions. Decimals. Percents

Appendix B: Using a Scientific Calculator.

Appendix C: Using a Graphing Calculator.

Appendix D: Introduction to Functions.



Essentials of College Algebra, 1st Edition

Richard N. Aufmann - Palomar College

Richard D. Nation - Palomar College

ISBN-10: 061848096X ISBN-13: 9780618480968

544 Pages Casebound

© 2006 Published

[Student Companion Site](#) | [Instructor Companion Site](#)

OVERVIEW

This text from the author team of Aufmann and Nation offers the same engaging style and support for students as the Aufmann College Algebra series, all in a brief format that covers the entire course in a single semester. Interactive learning techniques incorporated throughout the text help students better understand concepts, focus their study habits, and achieve greater success. In this First Edition, the authors have also integrated many components into the textbook to help students diagnose and remediate weak algebra skills. Extra support also comes from the Aufmann Interactive Method, featuring Try Exercises that allow students to practice math as it is presented and to more easily study for tests.

TABLE OF CONTENTS

Note: Each chapter includes a Summary, True/False Exercises, Review Exercises, and a Test. Chapters 1-6 include Cumulative Review Exercises.

Preliminary Concepts

P.1 The Real Number System

P.2 Integer and Rational Number Exponents

P.3 Polynomials

P.4 Rational Expressions

P.5 Complex Numbers

Exploring Concepts with Technology: Can You Trust Your Calculator?

1. Equations and Inequalities

1.1 Linear and Absolute Value Equations

1.2 Formulas and Applications

1.3 Quadratic Equations

1.4 Other Types of Equations

1.5 Inequalities

Exploring Concepts with Technology: Use a Graphing Calculator to Solve Equations

2. Functions and Graphs

2.1 A Two-Dimensional Coordinate System and Graphs

2.2 Introduction to Functions

2.3 Linear Functions

2.4 Quadratic Functions

2.5 Properties of Graphs

2.6 The Algebra of Functions

Exploring Concepts with Technology: Graphing Piecewise Functions with a Graphing Calculator

3. Polynomial and Rational Functions

3.1 The Remainder Theorem and the Factor Theorem

3.2 Polynomial Functions of Higher Degree

3.3 Zeros of Polynomial Functions

3.4 The Fundamental Theorem of Algebra

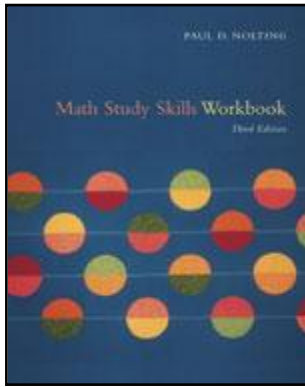
3.5 Graphs of Rational Functions and Their Applications

Exploring Concepts with Technology: Finding Zeros of a Polynomial Using Mathematica

4. Exponential and Logarithmic Functions

4.1 Inverse Functions

4.2 Exponential Functions and Their Applications
4.3 Logarithmic Functions and Their Applications
4.4 Logarithms and Logarithmic Scales
4.5 Exponential and Logarithmic Equations
4.6 Exponential Growth and Decay
Exploring Concepts with Technology: Using a Semilog Graph to Model Exponential Decay
5. Systems Of Equations
5.1 Systems of Linear Equations in Two Variables
5.2 Systems of Linear Equations in More Than Two Variables
5.3 Inequalities in Two Variables and Systems of Inequalities
Exploring Concepts with Technology: Ill-Conditioned Systems of Equations



Math Study Skills Workbook, 3rd Edition

Paul D. Nolting -

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144 Pages Paperbound

© 2008 Published

Student Companion Site | Instructor Companion Site

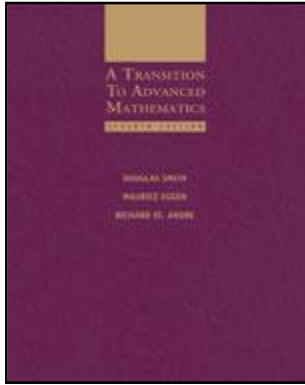
OVERVIEW

This best-selling workbook, helps traditionally unsuccessful students learn to effectively study mathematics. Typically used for a Math Study Skills course, Freshman Seminar, or as a supplement to class lectures, the Nolting workbook helps students identify their strengths, weaknesses, and personal learning styles in math. Nolting offers proven study tips, test-taking strategies, a homework system, and recommendations for reducing anxiety and improving grades.

TABLE OF CONTENTS

1. What You Need to Know to Study Math
 - Why Learning Math Is Different from Learning Other Subjects
 - The Differences Between High School and College Math
 - Why Your First Math Test Is Very Important
2. How to Discover Your Math Learning Strengths and Challenges
 - Variables Contributing to Student Academic Achievement
 - Your "Learning Diagnostic" for Math Class
 - Measuring Your Math Study Skills
 - Reflecting on Your Affective Attributes
 - How to Improve Your Math Knowledge
3. How to Reduce Math Test Anxiety
 - Understanding Math Anxiety
 - How to Recognize Test Anxiety
 - The Causes of Test Anxiety
 - The Different Types of Test Anxiety
 - How to Reduce Test Anxiety
4. How to Improve Your Listening and Note-Taking Skills
 - How to Become an Effective Listener
 - How to Become a Good Notetaker
 - The Seven Steps to Math Note Taking
 - How to Rework Your Notes
5. How to Improve Your Reading, Homework, and Study Techniques
 - How to Read a Math Textbook
 - How to Do Your Homework
 - How to Solve Word Problems
 - How to Work With a Study Buddy
 - The Benefits of Study Breaks
 - Using Online/Computer Resources to Support Learning
6. How to Remember What You Have Learned
 - How You Learn
 - How to Use Learning Styles to Improve Memory
 - How to Use Memory Techniques
 - How to Develop Practice Tests
 - How to Use Number Sense
7. How to Improve Your Math Test-Taking Skills

Why Attending Class and Doing Your Homework May Not Be Enough to Pass
The Ten Steps to Better Test Taking
The Six Types of Test-Taking Errors
How to Prepare for the Final Exam
Appendix
Math Autobiography
Careers and Mathematics
Bibliography
About the Author
Index



A Transition to Advanced Mathematics, 7th Edition

Doug Smith - University of North Carolina at Wilmington

Maurice Eggen - Trinity University

Richard St. Andre - Central Michigan University

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416 Pages Casebound

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OVERVIEW

A TRANSITION TO ADVANCED MATHEMATICS helps students make the transition from calculus to more proofs-oriented mathematical study. The most successful text of its kind, the 7th edition continues to provide a firm foundation in major concepts needed for continued study and guides students to think and express themselves mathematically—to analyze a situation, extract pertinent facts, and draw appropriate conclusions. The authors place continuous emphasis throughout on improving students' ability to read and write proofs, and on developing their critical awareness for spotting common errors in proofs. Concepts are clearly explained and supported with detailed examples, while abundant and diverse exercises provide thorough practice on both routine and more challenging problems. Students will come away with a solid intuition for the types of mathematical reasoning they'll need to apply in later courses and a better understanding of how mathematicians of all kinds approach and solve problems.

TABLE OF CONTENTS

1. LOGIC AND PROOFS.

Propositions and Connectives. Conditionals and Biconditionals. Quantifiers. Basic Proof Methods I. Basic Proof Methods II. Proofs Involving Quantifiers. Additional Examples of Proofs

2. SET THEORY.

Basic Notions of Set Theory. Set Operations. Extended Set Operations and Indexed Families of Sets. Induction. Equivalent Forms of Induction. Principles of Counting.

3. RELATIONS AND PARTITIONS.

Relations. Equivalence Relations. Partitions. Ordering Relations. Graphs.

4. FUNCTIONS.

Functions as Relations. Constructions of Functions. Functions That Are Onto; One-to-One Functions. One-to-One Correspondences and Inverse Functions. Images of Sets. Sequences.

5. CARDINALITY.

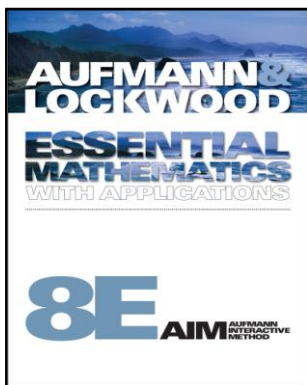
Equivalent Sets; Finite Sets. Infinite Sets. Countable Sets. The Ordering of Cardinal Numbers. Comparability of Cardinal Numbers and the Axiom of Choice.

6. CONCEPTS OF ALGEBRA: GROUPS.

Algebraic Structures. Groups. Subgroups. Operation Preserving Maps. Rings and Fields.

7. CONCEPTS OF ANALYSIS: COMPLETENESS OF THE REAL NUMBERS.

Ordered Field Properties of the Real Numbers. The Heine-Borel Theorem. The Bolzano-Weierstrass Theorem. The Bounded Monotone Sequence Theorem. Comparability of Cardinals and the Axiom of Choice.



Essential Mathematics with Applications, 8th Edition

Richard N. Aufmann - Palomar College

Joanne S. Lockwood - Nashua Community College

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376 Pages Paperbound

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[Student Companion Site](#) | [Instructor Companion Site](#)

EWA

OVERVIEW

As in previous editions, the focus in ESSENTIAL MATHEMATICS with APPLICATIONS, remains on the Aufmann Interactive Method (AIM). Students are encouraged to be active participants in the classroom and in their own studies as they work through the How To examples and the paired Examples and You Try It problems. The role of "active participant" is crucial to success. Presenting students with worked examples, and then providing them with the opportunity to immediately work similar problems, helps them build their confidence and eventually master the concepts.

To this point, simplicity plays a key factor in the organization of this edition, as in all other editions. All lessons, exercise sets, tests, and supplements are organized around a carefully-constructed hierarchy of objectives. This "objective-based" approach not only serves the needs of students, in terms of helping them to clearly organize their thoughts around the content, but instructors as well, as they work to design syllabi, lesson plans, and other administrative documents.

The Eighth Edition features a new design, enhancing the Aufmann Interactive Method and the organization of the text around objectives, making the pages easier for both students and instructors to follow.

TABLE OF CONTENTS

1. WHOLE NUMBERS.

Introduction to Whole Numbers. Addition of Whole Numbers. Subtraction of Whole Numbers. Multiplication of Whole Numbers. Division of Whole Numbers. Exponential Notation and the Order of Operations Agreement. Prime Numbers and Factoring. Focus on Problem Solving: Questions to Ask. Projects and Group Activities: Order of Operations; Patterns in Mathematics; Search the World Wide Web.

2. FRACTIONS.

The Least Common Multiple and Greatest Common Factor. Introduction to Fractions. Writing Equivalent Fractions. Addition of Fractions and Mixed Numbers. Subtraction of Fractions and Mixed Numbers. Multiplication of Fractions and Mixed Numbers. Division of Fractions and Mixed Numbers. Order, Exponents, and the Order of Operations Agreement. Focus on Problem Solving: Common Knowledge. Projects and Group Activities: Music; Construction; Fractions of Diagrams.

3. DECIMALS.

Introduction to Decimals. Addition of Decimals. Subtraction of Decimals. Multiplication of Decimals. Division of Decimals. Comparing and Converting Fractions and Decimals. Focus on Problem Solving: Relevant Information. Projects and Group Activities: Fractions as Terminating or Repeating Decimals.

4. RATIO AND PROPORTION.

Ratio. Rates. Proportions. Focus on Problem Solving: Looking for a Pattern. Projects and Group Activities: The Golden Ratio; Drawing the Floor Plans for a Building; The U.S. House of Representatives.

5. PERCENTS.

Introduction to Percents. Percent Equations: Part I. Percent Equations: Part II. Percent

Equations: Part III. Percent Problems: Proportion Method. Focus on Problem Solving: Using a Calculator as a Problem-Solving Tool; Using Estimation as a Problem-Solving Tool. Projects and Group Activities: Health; Consumer Price Index.

6. APPLICATIONS FOR BUSINESS AND CONSUMERS.

Applications to Purchasing. Percent Increase and Percent Decrease. Interest. Real Estate Expenses. Car Expenses. Wages. Bank Statements. Focus on Problem Solving:

Counterexamples Projects and Group Activities: Buying a Car.

Final Exam.

Appendix.

Solutions to You-Try-Its.

Answers to Selected Exercises.

Glossary.

Index.



Prealgebra: A Text/Workbook, 6th Edition

Charles P. McKeague - Cuesta Community College

ISBN-10: 0495559911 ISBN-13: 9780495559917

744 Pages

© 2010 Published

Instructor Companion Site

OVERVIEW

Pat McKeague's sixth edition of PREALGEBRA is the traditional text for the modern student. Retaining the clarity and patience in explanation and concept development that has made it the book of choice for so many over the years, this new edition is replete with new examples, applications, and fresh new technology options. Throughout this text, you'll find hundreds of new and relevant applications, with timely references to topics like gas prices and to companies like Google and Yahoo. Real data is used throughout, and wherever possible, has been updated to reflect recent changes. By showing how mathematics is used every day, the author makes students feel more at ease with the topics at hand. In a course where many students are entering with math anxiety, McKeague almost immediately calms students with chapter and section introductions, provides just in time study tips, and then helps students prepare with "Getting Ready for Class" boxes found throughout the text.

This new edition comes complete with Enhanced WebAssign (EWA), the easy to use homework management system. With EWA, you can assign, collect, grade, and record homework assignments via the web. This complete learning system for students includes text-specific exercises, as well as tutorials, videos, and links to online tutoring, and eBook sections of the text.

TABLE OF CONTENTS

1. WHOLE NUMBERS.

Place Value and Names for Numbers. Addition with Whole Numbers, and Perimeter. Rounding Numbers, Estimating Answers, and Displaying Information. Subtraction with Whole Numbers. Multiplication with Whole Numbers. Division with Whole Numbers. Exponents, Order of Operations, and Averages. Area and Volume.

2. INTRODUCTION TO ALGEBRA.

Positive and Negative Numbers. Addition with Negative Numbers. Subtraction with Negative Numbers. Multiplication with Negative Numbers. Division with Negative Numbers. Simplifying Algebraic Expressions.

3. FRACTIONS AND MIXED NUMBERS.

The Meaning and Properties of Fractions. Prime Numbers, Factors, and Reducing to Lowest Terms. Multiplication with Fractions, and the Area of a Triangle. Division with Fractions. Addition and Subtraction with Fractions. Mixed-Number Notation. Multiplication and Division with Mixed Numbers. Addition and Subtraction with Mixed Numbers. Combinations of Operations and Complex Fractions.

4. SOLVING EQUATIONS.

The Distributive Property and Algebraic Expressions. The Addition Property of Equality. The Multiplication Property of Equality. Linear Equations in One Variable. Applications. Evaluating Formulas. Paired Data and Equations in Two Variables. The Rectangular Coordinate System. Graphing Straight Lines.

5. DECIMALS.

Decimal Notation and Place Value. Addition and Subtraction with Decimals. Multiplication with Decimals. Division with Decimals. Fractions and Decimals. Equations Containing Decimals. Square Roots and the Pythagorean Theorem.

6. RATIO AND PROPORTION.

Ratios. Rates and Units Pricing. Proportions. Applications of Proportions.

Similar Figures.

7. PERCENT.

Percents, Decimals, and Fractions. Basic Percent Problems. General Applications of Percent. Sales Tax and Commission. Percent Increase or Decrease and Discount. Interest. Pie Charts.

8. MEASUREMENT.

Unit Analysis I: Length. Unit Analysis II: Area and Volume. Unit Analysis III: Weight. Converting Between the Two Systems and Temperature. Operations with time and Mixed Units.

9. EXPONENTS AND POLYNOMIALS, AN INTRODUCTION.

Multiplication Properties of Exponents. Adding and Subtracting Polynomials. Multiplying Polynomials: An Introduction. Negative Exponents. Scientific Notation. More about Scientific Notation.

Appendixes.

I: One Hundred Addition Facts.

II: One Hundred Multiplication Facts.

Solution to Selected Practice Problems.

Answers to Odd-Numbered Problems, and Chapter Tests.

Index.



PREALG, 1st Edition

Richard N. Aufmann - Palomar College

Joanne S. Lockwood - Nashua Community College

ISBN-10: 0538735554 ISBN-13: 9780538735551

368 Pages Paperbound

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includes Review Cards and Printed Access Card.**

OVERVIEW

Created through a "student-tested, faculty-approved" review process with over 120 students and faculty, PREALG is an engaging and accessible solution to accommodate the diverse lifestyles of today's learners at a value-based price. An innovative combination of content delivery both in print and online provides a core text and a wealth of comprehensive multimedia teaching and learning assets, including end-of-chapter review cards, downloadable flashcards and practice problems, online video tutorials, solutions to exercises and practice quizzes aimed at supplementing learning outside of the classroom. PREALG presents concepts in a visual and approachable way, ideal for combating the math anxiety often found in Developmental Math students. Also available is Cengage Learning's Enhanced WebAssign®—a complete online homework management system for students and professors.

TABLE OF CONTENTS

1. WHOLE NUMBERS.

Introduction to Whole Numbers. Addition and Subtraction of Whole Numbers. Multiplication and Division of Whole Numbers. Solving Equations with Whole Numbers. The Order of Operations Agreement.

2. INTEGERS.

Introduction to Integers. Addition and Subtraction of Integers. Multiplication and Division of Integers. Solving Equations with Integers. The Order of Operations Agreement.

3. FRACTIONS.

Least Common Multiple and Greatest Common Factor. Introduction to Fractions. Multiplication and Division of Fractions. Addition and Subtraction of Fractions. Solving Equations with Fractions. Exponents, Complex Fractions, and the Order of Operations Agreement.

4. DECIMALS AND REAL NUMBERS.

Introduction to Decimals. Addition and Subtraction of Decimals. Multiplication and Division of Decimals. Solving Equations with Decimals. Radical Expressions. Real Numbers.

5. VARIABLE EXPRESSIONS.

Properties of Real Numbers. Variable Expressions in Simplest Form. Addition and Subtractions of Polynomials. Multiplication of Monomials. Multiplication of Polynomials. Division of Monomials. Verbal Expressions and Variable Expressions.

6. FIRST-DEGREE EQUATIONS.

Equations of the Form $x + a = b$ and $ax = b$. Equations of the Form $ax + b = c$. General First-Degree Equations. Translating Sentences into Equations. The Rectangular Coordinate System. Graphs of Straight Lines.

7. MEASUREMENT and Proportion.

The Metric System of Measurement. Ratios and Rates. The U.S. Customary System of Measurement. Proportion. Direct and Inverse Variation.

8. PERCENT.

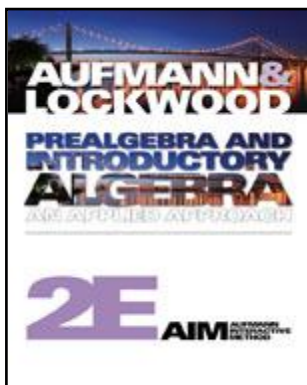
Percent. The Basic Percent Equation. Percent Increase and Percent Decrease. Markup and Discount. Simple Interest.

9. GEOMETRY.

Introduction to Geometry. Plane Geometric Figures. Triangles. Solids.

10. STATISTICS AND Probability.

Organizing Data. Statistical Measures. Introduction to Probability.



Prealgebra and Introductory Algebra: An Applied Approach, 2nd Edition

Richard N. Aufmann - Palomar College

Joanne S. Lockwood - Nashua Community College

ISBN-10: 0840048084 ISBN-13: 9780840048080

1008 Pages Paperbound

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Student Companion Site | Instructor Companion Site

OVERVIEW

As in previous editions, the focus in PREALGEBRA & INTRODUCTORY ALGEBRA, remains on the Aufmann Interactive Method (AIM). Students are encouraged to be active participants in the classroom and in their own studies as they work through the How To examples and the paired Examples and You Try It problems. The role of "active participant" is crucial to success. Presenting students with worked examples, and then providing them with the opportunity to immediately work similar problems, helps them build their confidence and eventually master the concepts.

To this point, simplicity plays a key factor in the organization of this edition, as in all other editions. All lessons, exercise sets, tests, and supplements are organized around a carefully-constructed hierarchy of objectives. This "objective-based" approach not only serves the needs of students, in terms of helping them to clearly organize their thoughts around the content, but instructors as well, as they work to design syllabi, lesson plans, and other administrative documents.

The Second Edition features a new design, enhancing the Aufmann Interactive Method and the organization of the text around objectives, making the pages easier for both students and instructors to follow.

TABLE OF CONTENTS

1. WHOLE NUMBERS.

Introduction to Whole Numbers. Addition and Subtraction of Whole Numbers. Multiplication and Division of Whole Numbers. The Order of Operations Agreement.

2. FRACTIONS AND DECIMALS.

The Least Common Multiple and Greatest Common Factor. Introduction to Fractions. Addition and Subtraction of Fractions. Multiplication and Division of Fractions. Introduction to Decimals. Operations with Decimals. The Order of Operations Agreement.

3. RATIONAL NUMBERS.

Introduction to Integers. Addition and Subtraction of Integers. Multiplication and Division of Integers. Operations with Rational Numbers. The Order of Operations Agreement.

4. VARIABLE EXPRESSIONS.

Evaluating Variable Expressions. Simplifying Variable Expressions. Translating Verbal Expressions into Variable Expressions.

5. SOLVING EQUATIONS.

Introduction to Equations. General Equations -- Part I. General Equations -- Part II. Translating Sentences into Equations. Mixture and Uniform Motion Problems.

6. PROPORTION AND PERCENT.

Ratios and Rates. Proportion. Percent. The Basic Percent Equation. Simple Interest.

7. GEOMETRY.

Introduction to Geometry. Plane Geometric Figures. Triangles. Solids.

8. STATISTICS AND PROBABILITY.

Statistical Graphs. Statistical Measures. Introduction to Probability.

9. POLYNOMIALS.

Addition and Subtraction of Polynomials. Multiplication of Monomials. Multiplication of Polynomials. Integer Exponents and Scientific Notation. Division of Polynomials.

10. FACTORING.

Common Factors. Factoring Polynomials of the Form $x^2 + bx + c$. Factoring Polynomials of the Form $ax^2 + bx + c$. Special Factoring. Solving Equations.

11. RATIONAL EXPRESSIONS.

Multiplication and Division of Rational Expressions. Expressing Fractions in Terms of the Least Common Multiple (LCM). Addition and Subtraction of Rational Expressions. Complex Fractions. Solving Equations Containing Fractions. Literal Equations. Application Problems.

12. LINEAR EQUATIONS IN TWO VARIABLES.

The Rectangular Coordinate System. Linear Equations in Two Variables. Intercepts and Slopes of Straight Lines. Equations of Straight Lines.

13. SYSTEMS OF LINEAR EQUATIONS.

Solving Systems of Linear Equations by Graphing. Solving Systems of Linear Equations by the Substitution Method. Solving Systems of Equations by the Addition Method. Application Problems in Two Variables.

14. INEQUALITIES.

Sets. The Addition and Multiplication Properties of Inequalities. General Inequalities. Graphing Linear Inequalities.

15. RADICAL EXPRESSIONS.

Introduction to Radical Expressions. Addition and Subtraction of Radical Expressions. Multiplication and Division of Radical Expressions. Solving Equations Containing Radical Expressions.

16. QUADRATIC EQUATIONS.

Solving Quadratic Equations by Factoring or by Taking Square Roots. Solving Quadratic Equations by Completing the Square. Solving Quadratic Equations by Using the Quadratic Formula. Graphing Quadratic Equations in Two Variables. Application Problems.



Prealgebra, 4th Edition

Alan S. Tussy - Citrus College

R. David Gustafson - Rock Valley College (Emeritus)

Diane Koenig - Rock Valley College

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1072 Pages Paperbound

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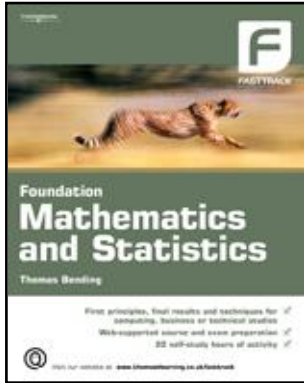
Student Companion Site

OVERVIEW

Offering a uniquely modern, balanced approach, Tussy/Gustafson/Koenig's PREALGEBRA, Fourth Edition, integrates the best of traditional drill and practice with the best elements of the reform movement. To many developmental math students, algebra is like a foreign language. They have difficulty translating the words, their meanings, and how they apply to problem solving. Emphasizing the "language of algebra," the text's fully integrated learning process is designed to expand students' reasoning abilities and teach them how to read, write, and think mathematically. It blends instructional approaches that include vocabulary, practice, and well-defined pedagogy with an emphasis on reasoning, modeling, communication, and technology skills.

TABLE OF CONTENTS

1. Whole Numbers.
2. The Integers.
3. The Language of Algebra.
4. Fractions and Mixed Numbers.
5. Decimals.
6. Ratio, Proportion, and Measurement.
7. Percent.
8. Graphs and Statistics
9. An Introduction to Geometry.
10. Exponents and Polynomials.



Foundation Mathematics and Statistics, 1st Edition Thomas Bending - Middlesex University

ISBN-10: 1844806111 ISBN-13: 9781844806119
304 Pages
© 2007 Published

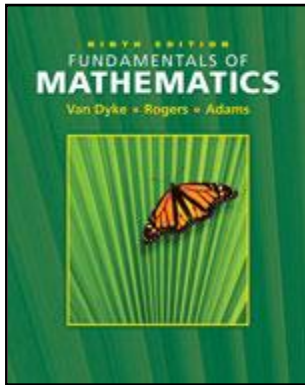
OVERVIEW

Foundation Mathematics and Statistics provides the reader with a firm understanding of the maths and stats they will need for a computing degree or diploma. The book will give the reader competency in a range of mathematical tools required for technical subjects, and the confidence they will need in the classroom. Explanations of mathematical tools are supported by real world examples to make this subject accessible. Graded exercises enable the reader to practice and revise each topic.

Starting with the basics of arithmetic and algebraic manipulation, the book covers everything from exponentials to logarithms. Providing a general grounding in proportions, ratios and percentages, this book will also help readers to understand probability and set theory. Finally, coverage includes the summary and presentation of statistical data and the drawing of histograms.

TABLE OF CONTENTS

1. Introduction to Algebra.
2. Linear Equations.
3. More on Equations.
4. Financial Mathematics.
5. Sets.
6. Introduction to Probability.
7. Summarising and Presenting Data.
8. Summary Statistics 1 - Measures of Location.
9. Summary Statistics 2 - Measures of Spread.
10. Correlation Analysis.



Fundamentals of Mathematics, 9th Edition
James Van Dyke, James Rogers, Holli Adams

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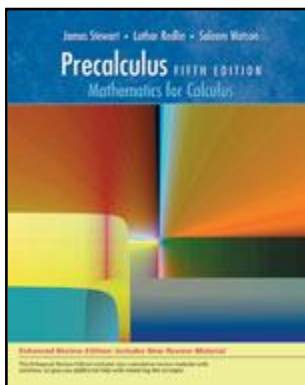
OVERVIEW

The FUNDAMENTALS OF MATHEMATICS, 9th Edition offers a comprehensive review of all basic mathematics concepts and prepares students for further coursework. The clear exposition and the consistency of presentation make learning arithmetic accessible for all. Key concepts are presented in section objectives and further defined within the context of How and Why; providing a strong foundation for learning. The predominant emphasis of the book focuses on problem-solving, skills, concepts, and applications based on "real world" data, with some introductory algebra integrated throughout. The authors feel strongly about making the connection between mathematics and the modern, day-to-day activities of students. This textbook is suitable for individual study or for a variety of course formats: lab, self-paced, lecture, group or combined formats.

Though the mathematical content of FUNDAMENTALS OF MATHEMATICS is elementary, students using this textbook are often mature adults, bringing with them adult attitudes and experiences and a broad range of abilities. Teaching elementary content to these students, therefore, is effective when it accounts for their distinct and diverse adult needs. Using Fundamentals of Math meets three needs of students which are: students must establish good study habits and overcome math anxiety; students must see connections between mathematics and the modern day-to-day world of adult activities; and students must be paced and challenged according to their individual level of understanding.

TABLE OF CONTENTS

- Chapter 1. WHOLE NUMBERS.
- Chapter 2. PRIMES AND MULTIPLES.
- Chapter 3. FRACTIONS AND MIXED NUMBERS.
- Chapter 4. DECIMALS.
- Chapter 5. RATIO AND PROPORTION.
- Chapter 6. PERCENT.
- Chapter 7. MEASUREMENTS AND GEOMETRY.
- Chapter 8. ALGEBRA PREVIEW; SIGNED NUMBERS.



Precalculus: Mathematics for Calculus, Enhanced Review Edition, 5th Edition

James Stewart - McMaster University

Lothar Redlin - Pennsylvania State University, Abington Campus

Saleem Watson - California State University, Long Beach

ISBN-10: 0495392774 ISBN-13: 9780495392774

1072 Pages Casebound

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OVERVIEW

This best selling author team explains concepts simply and clearly, without glossing over difficult points. Problem solving and mathematical modeling are introduced early and reinforced throughout, so that when students finish the course, they have a solid foundation in the principles of mathematical thinking. 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. The authors' attention to detail and clarity, as in James Stewart's market-leading Calculus text, is what makes this text the market leader.

TABLE OF CONTENTS

1. FUNDAMENTALS.

Overview. Real Numbers. Exponents and Radicals. Algebraic Expressions. Discovery Project: Visualizing a Formula. Fractional Expressions. Equations. Modeling with Equations. Discovery Project: Equations through the Ages. Inequalities. Coordinate Geometry. Graphing Calculators: Solving Equations and Inequalities Graphically. Lines. Modeling Variation. Review. Test. Focus on Problem Solving: General Principles.

2. FUNCTIONS.

Overview. What is a Function? Graphs of Functions. Discovery Project: Relations and Functions. Increasing and Decreasing Functions: Average Rate of Change. Transformations of Functions. Quadratic Functions: Maxima and Minima. Modeling with Functions. Combining Functions. Discovery Project: Iteration and Chaos. One-to-One Functions and Their Inverses. Review. Test. Focus on Modeling: Fitting Lines to Data.

3. POLYNOMIAL AND RATIONAL FUNCTIONS.

Overview. Polynomial Functions and Their Graphs. Dividing Polynomials. Real Zeros of Polynomials. Discovery Project: Zeroing in on a Zero. Complex Numbers. Complex Zeros and the Fundamental Theorem of Algebra. Rational Functions. Review. Test. Focus on Modeling: Fitting Polynomials to Data.

4. EXPONENTIAL AND LOGARITHMIC FUNCTIONS.

Overview. Exponential Functions. Discovery Project: Exponential Explosion. Logarithmic Functions. Laws of Logarithms. Exponential and Logarithmic Equations. Modeling with Exponential and Logarithmic Functions. Review. Test. Focus on Modeling: Fitting Exponential and Power Curves to Data.

5. TRIGONOMETRIC FUNCTIONS OF ANGLES.

Overview. The Unit Circle. Trigonometric Functions of Real Numbers. Trigonometric Graphs. Discovery Project: Predator-Prey Models. More Trigonometric Graphs. Modeling Harmonic Motion. Review. Test. Focus on Modeling: Fitting Sinusoidal Curves to Data.

6. TRIGONOMETRIC FUNCTIONS OF ANGLES.

Overview. Angle Measure. Trigonometry of Right Triangles. Discovery Project: Similarity. Trigonometric Functions of Angles. The Law of Sines. The Law of Cosines. Review. Test. Focus on Modeling: Surveying.

7. ANALYTIC TRIGONOMETRY.

Overview. Trigonometric Identities. Addition and Subtraction Formulas. Double-Angle, Half-

Angle, and Sum-Product Identities. Inverse Trigonometric Functions. Discovery Project: Where to Sit at the Movies. Trigonometric Equations. Review. Test. Focus on Modeling: Traveling and Standing Waves.

8. POLAR COORDINATES AND VECTORS.

Overview. Polar Coordinates. Graphs of Polar Equations. Polar Form of Complex Numbers; DeMoivre's Theorem. Discovery Project: Fractals. Vectors. The Dot Product. Discovery Project: Sailing Against the Wind. Review. Test. Focus on Modeling: Mapping the World.

9. SYSTEMS OF EQUATIONS AND INEQUALITIES.

Overview. Systems of Equations. Systems of Linear Equations in Two Variables. Systems of Linear Equations in Several Variables. Discovery Project: Best Fit versus Exact Fit. Systems of Linear Equations: Matrices. The Algebra of Matrices. Discovery Project: Will the Species Survive? Inverses of Matrices and Matrix Equations. Discovery Project: Computer Graphics I. Determinants and Cramer's Rule. Partial Fractions. Systems of Inequalities. Review. Test. Focus on Modeling: Linear Programming.

10. ANALYTIC GEOMETRY.

Overview. Parabolas. Ellipses. Hyperbolas. Discovery Project: Conics in Architecture Shifted Conics. Rotation of Axes. Discovery Project: Computer Graphics II. Polar Equations of Conics. Plane Curves and Parametric Equations. Review. Test. Focus on Modeling: The Path of a Projectile.

11. SEQUENCES AND SERIES.

Overview. Sequences and Summation Notation. Arithmetic Sequences. Geometric Sequences. Discovery Project: Finding Patterns. Mathematical Finance. Mathematical Induction. The Binomial Theorem. Review. Test. Focus on Modeling: Modeling with Recursive Sequences.

12. LIMITS: A PREVIEW OF CALCULUS.

Overview. Finding Limits Numerically and Graphically. Finding Limits Algebraically. Tangent Lines and Derivatives. Discovery Project: Designing a Roller Coaster. Limits at Infinity: Limits of Sequences. Areas. Review. Test. Focus on Modeling: Interpretations of Area.

Answers to Odd-Numbered Exercises and Chapter Tests.

Index.

PHYSICS



College Physics, Volume 1, 8th Edition

Raymond A. Serway - James Madison University (Emeritus)

Jerry S. Faughn - Eastern Kentucky University, Professor Emeritus
and former Chair of the Physics Department

Chris Vuille - Embry-Riddle Aeronautical University

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OVERVIEW

While physics can seem challenging, its true quality is the sheer simplicity of fundamental physical theories--theories and concepts that can enrich your view of the world around you. COLLEGE PHYSICS, 8e, provides you with a clear strategy for connecting those theories to a consistent problem-solving approach, carefully reinforcing this methodology throughout the text and connecting it to real-world examples. For students planning to take the MCAT exam, the text includes exclusive test prep and review tools to help you prepare.

TABLE OF CONTENTS

Part 1: MECHANICS.

1. Introduction.
2. Motion in One Dimension.
3. Vectors and Two-Dimensional Motion.
4. The Laws of Motion.
5. Energy.
6. Momentum and Collisions.
7. Rotational Motion and the Law of Gravity.
8. Rotational Equilibrium and Rotational Dynamics.
9. Solids and Fluids.

Part 2: THERMODYNAMICS.

10. Thermal Physics.
11. Energy in Thermal Processes.
12. The Laws of Thermodynamics.

Part 3: VIBRATIONS AND WAVES.

13. Vibrations and Waves.
14. Sound.



College Physics Vol. 2, 8th Edition

Raymond A. Serway - James Madison University (Emeritus)

Jerry S. Faughn - Eastern Kentucky University, Professor Emeritus
and former Chair of the Physics Department

Chris Vuille - Embry-Riddle Aeronautical University

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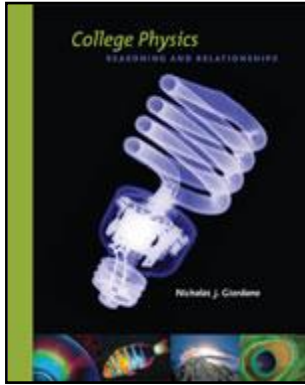
OVERVIEW

COLLEGE PHYSICS, 8e, combines a logical presentation of the physical concepts with a consistent problem-solving strategy that results in true understanding for the student. The new edition is supported by innovative technologies to enhance your teaching experience and your students' learning.

TABLE OF CONTENTS

Part 4: ELECTRICITY AND MAGNETISM.

15. Electric Forces and Electric Fields.
16. Electrical Energy and Capacitance.
17. Current and Resistance.
18. Direct Current Circuits.
19. Magnetism.
20. Induced Voltages and Inductance.
21. Alternating Current Circuits and Electromagnetic Waves.
22. Reflection and Refraction of Light.
23. Mirrors and Lenses.
24. Wave Optics.
25. Optical Instruments.
26. Relativity.
27. Quantum Physics.
28. Atomic Physics.
29. Nuclear Physics.
30. Nuclear Energy and Elementary Particles.



College Physics: Reasoning and Relationships, 1st Edition

Nicholas Giordano - Purdue University

ISBN-10: 0534424716 ISBN-13: 9780534424718

1184 Pages Casebound

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OVERVIEW

COLLEGE PHYSICS: REASONING & RELATIONSHIPS is an innovative new text that uses the hallmark theme of "reasoning and relationships" to help students master the fundamental concepts of the course. By understanding the reasoning behind problem solving, students learn to recognize the concepts involved, think critically about them, and move beyond merely memorizing facts and equations. By recognizing the relationships between physics and their experiences, students will develop a stronger understanding of how the concepts relate to each other. COLLEGE PHYSICS: REASONING & RELATIONSHIPS uses original applications drawn from the life sciences and familiar everyday scenarios to motivate student learning and a consistent problem-solving approach to prepare students for the rigors of the course.

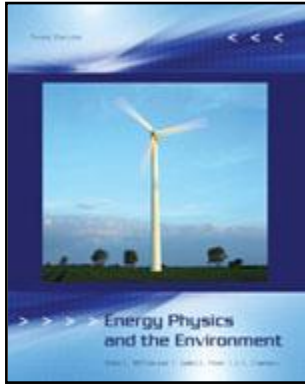
TABLE OF CONTENTS

Volume I: MECHANICS, WAVES, AND THERMAL PHYSICS.

1. Introduction.
2. Motion, Forces and Newton's Laws.
3. Forces and Motion in One Dimension.
4. Forces and Motion in Two and Three Dimensions.
5. Circular Motion and Gravitation.
6. Work and Energy.
7. Momentum, Impulse, and Collisions.
8. Rotational Motion.
9. Energy and Momentum of Rotational Motion.
10. Fluids.
11. Harmonic Motion and Elasticity.
12. Waves.
13. Sound.
14. Temperature and Heat.
15. Gases and Kinetic Theory.
16. Thermodynamics.

Volume II: ELECTROMAGNETISM, OPTICS, AND MODERN PHYSICS.

17. Electric Forces and Fields.
18. Electric Potential.
19. Electric Currents and Circuits.
20. Magnetic Fields and Forces.
21. Magnetic Induction.
22. AC Circuits and Machines.
23. Electromagnetic Waves.
24. Geometrical Optics.
25. Wave Optics.
26. Applications of Optics.
27. Relativity.
28. Quantum Theory.
29. Atomic Theory.
30. Nuclear Physics.
31. Physics in the Twenty-First Century.



Energy, Physics and the Environment, 3rd Edition

E. L. McFarland

J. L. Hunt

J. L. Campbell

ISBN-10: 1426624336 ISBN-13: 9781426624339

350 Pages Paperbound

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OVERVIEW

Energy, Physics and the Environment provides a foundational quantitative account of energy and related environmental issues for university students in science who have a first-year preparation in Physics. The text discusses the numbers involved in the various dimensions of the overall energy issue in order to help the reader develop a quantitative grasp on them. This third edition book features an expanded section on uranium resources and the most updated data available. Energy, Physics and the Environment gives students the opportunity to study current energy supply concerns and the impact that energy supply shortage has on the environment.

Instructors material are available at: <http://ebooks.thomsoncustom.com/instructors.html>

TABLE OF CONTENTS

Chapter 1: Energy and Power in Today's World

Chapter 2: Energy Consumption: Past, Present and Future

Chapter 3: The Hubbert Model of Resource Production

Chapter 4: Efficiency of Energy Conversions

Chapter 5: Health and Environmental Impacts of Fossil Fuels

Chapter 6: Electromagnetic Radiation and the Greenhouse Effect

Chapter 7: Electricity 7.1 Electric Charge

Chapter 8: Magnetism and A.C. Electricity

Chapter 9: Commercial Electricity

Chapter 10: Nuclear Physics

Chapter 11: Nuclear Energy: 20th Century

Chapter 12: Health and Environmental Impacts of Nuclear Energy

Chapter 13: Nuclear Energy: 21st Century

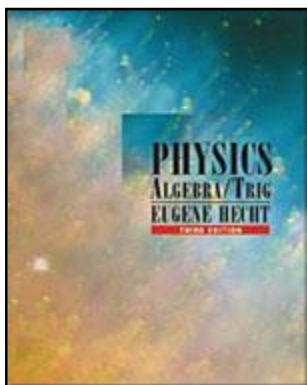
Chapter 14: Renewable Energy I

Chapter 15: Renewable Energy II

Chapter 16: Energy Use in the Residential, Commercial and Industrial Sectors

Chapter 17: The Automobile and Transportation

Chapter 18: New Energy Technologies



Physics: Algebra/Trig, 3rd Edition

(includes CD-ROM)

Eugene Hecht - Adelphi University

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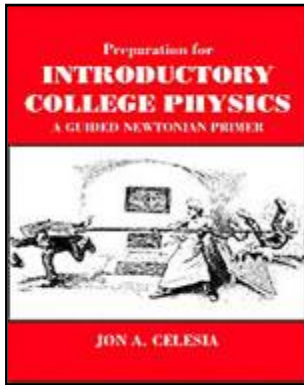
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OVERVIEW

In Hecht's groundbreaking book, you'll find real-life applications, an unparalleled art and photography program, a presentation that anticipates students' questions, and an approach that emphasizes contemporary physics while interweaving historical perspectives. Hecht's coverage of classical physics is clear and insightful. He shows students how 21st-century physics illuminates the classical topics of each chapter, adding excitement to the subject matter. Over 1,300 illustrations make it possible for students to visualize a diversity of physical phenomena. Many of these are multi-frame, sequential drawings allowing students to comprehend the temporal unfolding of complex events. A selection of sketch art teaches students how to create problem-solving diagrams. This new edition of the text was designed to aggressively address the issue of problem solving for students (guided by contemporary physics education research).

TABLE OF CONTENTS

1. AN INTRODUCTION TO PHYSICS.
2. KINEMATICS: SPEED AND VELOCITY.
3. KINEMATICS: ACCELERATION.
4. NEWTON'S THREE LAWS.
5. CENTRIPETAL FORCE AND GRAVITY.
6. ENERGY.
7. MOMENTUM AND COLLISIONS.
8. ROTATIONAL MOTION.
9. SOLIDS, LIQUIDS, AND GASES.
10. ELASTICITY AND OSCILLATIONS.
11. WAVES AND SOUND.
12. THERMAL PROPERTIES OF MATTER.
13. HEAT AND THERMAL ENERGY.
14. THERMODYNAMICS.
15. ELECTROSTATICS: FORCES.
16. ELECTROSTATICS: ENERGY.
17. DIRECT CURRENT.
18. CIRCUITS.
19. MAGNETISM.
20. ELECTROMAGNETIC INDUCTION.
21. AC AND ELECTRONICS.
22. RADIANT ENERGY: LIGHT.
23. THE PROPAGATION OF LIGHT: SCATTERING.
24. GEOMETRICAL OPTICS AND INSTRUMENTS.
25. PHYSICAL OPTICS.
26. SPECIAL RELATIVITY.
27. THE ORIGINS OF MODERN PHYSICS.
28. THE EVOLUTION OF QUANTUM THEORY.
29. QUANTUM MECHANICS.
30. NUCLEAR PHYSICS.
31. HIGH-ENERGY PHYSICS.



Preparation for Introductory College Physics: A Guided Student Primer, 1st Edition

Jon A. Celesia - San Francisco State University

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200 Pages Paperbound

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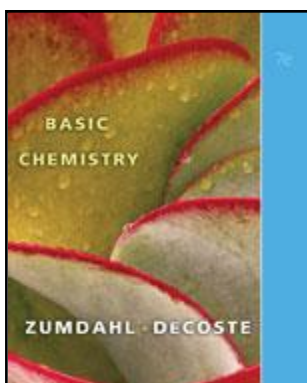
OVERVIEW

This light-hearted guide prepares students to be successful in any introductory physics course. As students work through the guide, they will discover the "cool" nature of the physical world and find out that physics can be fun! While this tutorial may be used with any text, it is inspired by and closely follows *Physics: The Nature of Things*, by Susan M. Lea and John Robert Burke, Brooks/Cole Publishing.

TABLE OF CONTENTS

1. You Should Know
2. How to Study Physics
3. Mathematic Land
4. Newtonian Mechanics

CHEMISTRY



Basic Chemistry, 7th Edition

Steven S. Zumdahl - University of Illinois, Urbana-Champaign

Donald J. DeCoste - University of Illinois, Urbana-Champaign

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640 Pages Paperbound

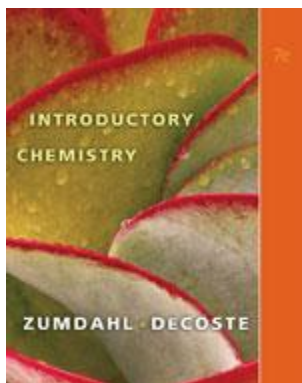
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OVERVIEW

The Seventh Edition of Zumdahl and DeCoste's best-selling *INTRODUCTORY CHEMISTRY: A FOUNDATION* that combines enhanced problem-solving structure with substantial pedagogy to enable students to become strong independent problem solvers in the introductory course and beyond. Capturing student interest through early coverage of chemical reactions, accessible explanations and visualizations, and an emphasis on everyday applications, the authors explain chemical concepts by starting with the basics, using symbols or diagrams, and conclude by encouraging students to test their own understanding of the solution. This step-by-step approach has already helped hundreds of thousands of students master chemical concepts and develop problem-solving skills. The book is known for its focus on conceptual learning and for the way it motivates students by connecting chemical principles to real-life experiences in chapter-opening discussions and "Chemistry in Focus" boxes. The Seventh Edition now adds a "questioning" pedagogy to in-text examples to help students learn what questions they should be asking themselves while solving problems, offers a revamped art program to better serve visual learners, and includes a significant number of revised end-of-chapter questions. The book's unsurpassed teaching and learning resources include a robust technology package that now offers a choice between OWL: Online Web Learning and Enhanced WebAssign.

1. CHEMISTRY: AN INTRODUCTION.
2. MEASUREMENTS AND CALCULATIONS.
3. MATTER.
4. CHEMICAL FOUNDATIONS: ELEMENTS, ATOMS, AND IONS.
5. NOMENCLATURE.
6. CHEMICAL REACTIONS: AN INTRODUCTION.
7. REACTIONS IN AQUEOUS SOLUTIONS.
8. CHEMICAL COMPOSITION.
9. CHEMICAL QUANTITIES.
10. ENERGY.
11. MODERN ATOMIC THEORY.
12. CHEMICAL BONDING.
13. GASES.
14. LIQUIDS AND SOLIDS.
15. SOLUTIONS.
16. ACIDS AND BASES.



Introductory Chemistry, 7th Edition

Steven S. Zumdahl - University of Illinois, Urbana-Champaign

Donald J. DeCoste - University of Illinois, Urbana-Champaign

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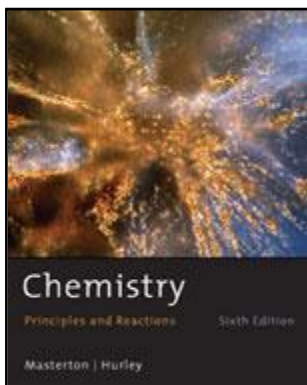
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TABLE OF CONTENTS

1. CHEMISTRY: AN INTRODUCTION.
2. MEASUREMENTS AND CALCULATIONS.
3. MATTER.
4. CHEMICAL FOUNDATIONS: ELEMENTS, ATOMS, AND IONS.
5. NOMENCLATURE.
6. CHEMICAL REACTIONS: AN INTRODUCTION.
7. REACTIONS IN AQUEOUS SOLUTIONS.
8. CHEMICAL COMPOSITION.
9. CHEMICAL QUANTITIES.
10. ENERGY.
11. MODERN ATOMIC THEORY.
12. CHEMICAL BONDING.
13. GASES.
14. LIQUIDS AND SOLIDS.
15. SOLUTIONS.
16. ACIDS AND BASES.
17. EQUILIBRIUM.
18. OXIDATION-REDUCTION REACTIONS AND ELECTROCHEMISTRY.
19. RADIOACTIVITY AND NUCLEAR ENERGY.



Chemistry: Principles and Reactions, 6th Edition

William L. Masterton - University of Connecticut

Cecile N. Hurley - University of Connecticut

ISBN-10: 0495126713 ISBN-13: 9780495126713

736 Pages Casebound

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OVERVIEW

Discover all of the fundamental topics of general chemistry in the latest edition of this brief, cost-effective, reader-oriented text. Masterton/Hurley's CHEMISTRY: PRINCIPLES AND REACTIONS, 6e, provides a clear, concise presentation based on the authors' more than 50 years of combined teaching experience. This edition takes you directly to the crux of concepts with simplicity and allows you to efficiently cover all topics found in the typical general chemistry book.

New and proven concept-driven examples as well as examples that focus on molecular reasoning and understanding provide important practice. New "Chemistry: Beyond the Classroom" essays by guest authors demonstrate the relevance of the concepts you are learning and highlight some of the most up-to-date uses of chemistry. A strong, enhanced art program further assists you in visualizing chemical concepts.

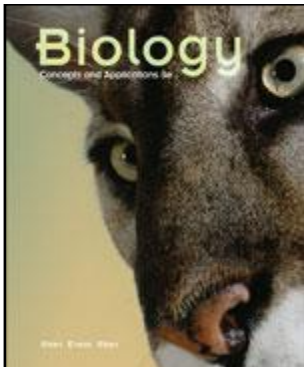
For the first time, this edition fully integrates OWL (Online Web-based Learning), the homework management system trusted by tens of thousands of students. Integrated end-of-chapter questions and Key Concepts correlate to OWL. An optional e-book of this edition is also available in OWL.

To further assist in learning and depth of coverage, the book offers CengageNOW™, a Web-based student self-tutorial program. In addition, Go Chemistry™ learning modules developed by award-winning chemists offer mini-lectures and learning tools available for video iPods, MP3 players, and iTunes or CengageNOW™ to accommodate students like you who are on the go.

TABLE OF CONTENTS

1. Matter and Measurements.
2. Atoms, Molecules, and Ions.
3. Mass Relations in Chemistry; Stoichiometry.
4. Reactions in Aqueous Solution.
5. Gases.
6. Electronic Structure and the Periodic Table.
7. Covalent Bonding.
8. Thermochemistry.
9. Liquids and Solids.
10. Solutions.
11. Rate of Reaction.
12. Gaseous Chemical Equilibrium.
13. Acids and Bases.
14. Equilibria in Acid-Base Solutions.
15. Complex Ions.
16. Precipitation Equilibria.
17. Spontaneity of Reaction.
18. Electrochemistry.
19. Nuclear Reactions.
20. Chemistry of the Metals.
21. Chemistry of the Nonmetals.
22. Organic Chemistry.
23. Organic Polymers, Natural and Synthetic.

BIOLOGY



Biology: Concepts and Applications, 8th Edition Cecie Starr -

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Instructor Companion Site

OVERVIEW

Clear, engaging, and visual, **BIOLOGY: CONCEPTS AND APPLICATIONS** equips non-biology majors with the science they'll need in life! Renowned for its writing style and trendsetting art, the new edition includes an enhanced visual pedagogy, learning features, and media options. Helping visual learners, "Figure It Out" questions in many illustrations ensure students understand the concepts. The new Data Analysis Activities at the end of every chapter help students strengthen their analytical skills. New "Take Home Messages" ensure students grasp key concepts while special features like the chapter opening case studies and "How Would You Vote?" questions enliven the subject matter and make relevant connections between biology and real-life concerns. Helpful media options include new pop-up tutors that help explain key topics with short video explanation and the robust, interactive Aplia program that connects with today's students.

Throughout this issues-oriented text, the authors emphasize that biology is an ongoing endeavor carried out by a diverse community of people and prepare students to make decisions that require an understanding of the process of science and basic biological principles.

TABLE OF CONTENTS

1. Invitation to Biology.
- Part I: PRINCIPLES OF CELLULAR LIFE.
2. Life's Chemical Basis.
3. Molecules of Life.
4. Cell Structure.
5. Ground Rules of Metabolism.
6. Where It Starts--Photosynthesis.
7. How Cells Release Chemical Energy.
- Part II: GENETICS.
8. DNA Structure and Function.
9. From DNA to Protein.
10. Controls over Genes.
11. How Cells Reproduce.
12. Meiosis and Sexual Reproduction.
13. Observing Patterns in Inherited Traits.
14. Human Inheritance.
15. Biotechnology.
- Part III: PRINCIPLES OF EVOLUTION.
16. Evidence of Evolution.
17. Processes of Evolution.
18. Life's Origin and Early Evolution.
- Part IV: EVOLUTION AND BIODIVERSITY.
19. Viruses, Bacteria, and Archaeans.
20. The Protists.

21. Plant Evolution.
22. Fungi.
23. Animals I: Invertebrate Groups.
24. Animals II: The Chordates.
- Part V. HOW PLANTS WORK.
25. Plant Tissues.
26. Plant Nutrition and Transport.
27. Plant Reproduction and Development.
- Part VI. HOW ANIMALS WORK.
28. Animal Tissues and Organ Systems.
29. Neural Control.
30. Sensory Perception.
31. Endocrine Control.
32. Structural Support and Movement.
33. Circulation.
34. Immunity.
35. Respiration.
36. Digestion and Human Nutrition.
37. The Internal Environment.
38. Reproduction and Development.
- Part VII: PRINCIPLES OF ECOLOGY.
39. Animal Behavior.
40. Population Ecology.
41. Community Ecology.
42. Ecosystems.
43. The Biospheres.
44. Human Effects on the Biosphere



Human Biology, 8th Edition

includes Printed Access Card

Cecie Starr -

Beverly McMillan - Gloucester, Virginia

ISBN-10: 0495561819 ISBN-13: 9780495561811

608 Pages

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OVERVIEW

Starr and McMillan's HUMAN BIOLOGY, 8th Edition presents the core areas of human biology, with an emphasis on not only the internal world, but how we impact our external world. Highlighting biology's relevance, each chapter opens with an "Impacts, Issues" reading on a human biology-related issue currently in the news. Within the chapter, students then learn the basic concepts which help them think critically about these issues. In addition, each chapter's "How Would You Vote?" question invites students to explore current issues and deepen their understanding through online exercises. By the end of the chapter, learners are asked to "Explore on Your Own", and participate in activities showing the impact of the content on their lives. Lastly, carefully integrated instructor and student media helps with lecture prep, delivering course content and monitoring student's progress through the content.

TABLE OF CONTENTS

1. Learning about Human Biology.
2. Chemistry of Life.
3. Cells and How They Work.
4. Tissues, Organs, and Organ Systems.
5. The Skeletal System.
6. The Muscular System.
7. Circulation—The Heart and Blood Vessels.
8. Blood.
9. Immunity.
10. The Respiratory System.
11. Digestion and Nutrition.
12. The Urinary System.
13. The Nervous System.
14. Sensory Systems.
15. The Endocrine System.
16. Reproductive Systems.
17. Development and Aging.
18. Cell Reproduction.
19. Patterns in Inherited Traits.
20. Chromosomes and Human Genetics.
21. DNA, Genes, and Biotechnology.
22. Genes and Disease: Cancer.
23. Principles of Evolution.
24. Principles of Ecology.
25. Humans in the Larger World.



Volume 1 - Cell Biology and Genetics, 12th Edition
Cecie Starr, Ralph Taggart, Christine Evers, Lisa Starr

ISBN-10: 0495557986 ISBN-13: 9780495557982
320 Pages
© 2009 Published

OVERVIEW

By using an issues-oriented approach, Volume 1 – Cell Biology and Genetics from The Unity and Diversity of Life, 12e grabs student interest with real-life issues that hit home. This text includes new coverage and pedagogy that encourages students to think critically about hot-button issues and includes outstanding new features that take students beyond memorization and encourage them to ask questions in new ways as they learn to interpret data.

TABLE OF CONTENTS

INTRODUCTION.

1. Invitation to Biology.

PRINCIPLES OF CELLULAR LIFE.

2. Life's Chemical Basis.

3. Molecules of Life.

4. Cell Structure and Function.

5. A Closer Look at Cell Membranes.

6. Ground Rules of Metabolism.

7. Where It Starts—Photosynthesis.

8. How Cells Release Chemical Energy.

PRINCIPLES OF INHERITANCE.

9. How Cells Reproduce.

10. Meiosis and Sexual Reproduction.

11. Observing Patterns in Inherited Traits.

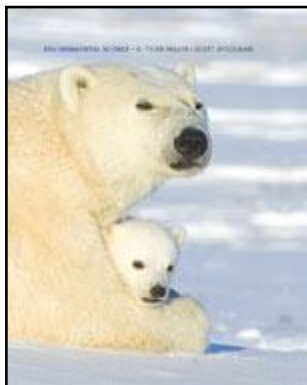
12. Chromosomes and Human Inheritance.

13. DNA Structure and Function.

14. From DNA to Protein.

15. Controls Over Genes.

16. Studying and Manipulating Genomes.



Environmental Science: Problems, Connections and Solutions, 12th Edition

G. Tyler Miller Jr. - President, Earth Education and Research
Scott Spoolman

ISBN-10: 0495383376 ISBN-13: 9780495383376

576 Pages Paperbound

© 2008 Published

Student Companion Site | Instructor Companion Site

OVERVIEW

ENVIRONMENTAL SCIENCE: WORKING WITH THE EARTH, Twelfth Edition, boasts an unparalleled coverage of sustainability, basic science, and bias-free explanations, all within a flexible chapter organization. The central theme of sustainability is clarified by a consistent emphasis on natural capital, natural capital degradation, solutions, trade-offs, and the importance of individuals. As a result, students learn how nature works, how we interact with it, and how we have sustained--and can continue to sustain--our relationship with the earth by applying nature's lessons to our economies and individual lifestyles. Designed for students with little to no science background, the book's science- and concept-centered approach encourages students to think about important concepts and issues that affect their lives. Core case studies illustrate key topics and issues, reinforcing the sustainability theme. These and other cases inspire almost 70 "How Would You Vote?" questions, which sharpen students' critical thinking by asking them to consider facts, conflicting solutions, and trade-offs surrounding the issues, and then cast their vote.

The text is supported by the strongest media tools and illustration program available. Highlights include CengageNOW, an online resource featuring automatic grading and Personalized Study Plans; videos; and the PowerLecture presentation tool that makes it easy for you to create customized multimedia lectures.

TABLE OF CONTENTS

Learning Skills.

Part I: HUMANS AND SUSTAINABILITY: AN OVERVIEW.

1. Environmental Problems, Their Causes, and Sustainability.

Part II: ECOLOGY AND SUSTAINABILITY.

2. Science, Matter, and Energy.

3. Ecosystems: What Are They and How Do They Work?.

4. Evolution and Biodiversity.

5. Climate and Biodiversity.

6. Community and Population Ecology.

7. Applying Population Ecology: Human Population and Urbanization.

Part III: SUSTAINING BIODIVERSITY.

8. Sustaining Biodiversity: The Ecosystem Approach.

9. Sustaining Biodiversity: The Species Approach.

Part IV: SUSTAINING RESOURCES AND ENVIRONMENTAL QUALITY.

10. Food, Soil, and Pest Management.

11. Water and Water Pollution.

12. Geology and Nonrenewable Mineral Resources.

13. Energy.

14. Environmental Hazards and Human Health.

15. Air Pollution, Climate Change, and Ozone Depletion.

16. Solid and Hazardous Waste.

Part V: SUSTAINING HUMAN SOCIETIES.

17. Environmental Economics, Politics, and Worldviews.



Photo Atlas for Biology, 1st Edition

James W. Perry - University of Wisconsin - Fox Valley

David Morton - Frostburg State University

ISBN-10: 0534235565 ISBN-13: 9780534235567

160 Pages Paperbound

© 1996 Published

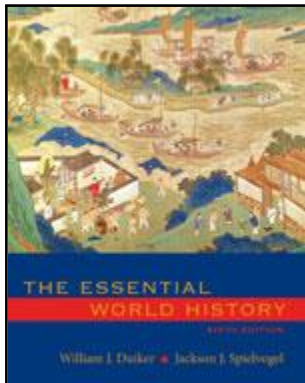
OVERVIEW

This full-color atlas helps your students through the lab sections of their biology, botany, and zoology classes. It includes more than 600 full-color photos and micrographs. This invaluable aid helps students both grasp the material more quickly in a lab setting, and recall later what they've seen. By covering up the labels associated with the photos, students can also use the Atlas effectively as they study and review for exams.

TABLE OF CONTENTS

1. Microscopy
 2. Cell Structure
 3. Cell Division: Mitosis
 4. Cell Division: Meiosis
 5. Prokaryotic Organisms
 6. Protists
 7. Fungi
 8. Algae
 9. Lichens
 10. Bryophytes
 11. Seedless Vascular Plants
 12. Gymnosperms
 13. Angiosperms
 14. Plants Cells, Tissues, and Organs
 15. Invertebrates
 16. Hemichordates and Invertebrate Chordates
 17. Vertebrates
 18. Mammalian Tissues
 19. Mammalian Organs
 20. Animal Reproduction and Development
- Index

HISTORY



The Essential World History, 6th Edition

William J. Duiker - The Pennsylvania State University

Jackson J. Spielvogel - The Pennsylvania State University

SBN-10: 0495902276 ISBN-13: 9780495902270

880 Pages Paperbound

© 2011 Published

OVERVIEW

In this best-selling text, noted teachers and scholars William J. Duiker and Jackson J. Spielvogel present a brief, balanced, highly-readable overview of world history that explores common challenges and experiences that unite the human past and that identify key global patterns over time. Thorough coverage of political, economic, social, religious, intellectual, cultural, and military history has been integrated into a chronologically ordered synthesis to help students gain an appreciation and understanding of the distinctive character and development of individual cultures in society. The Sixth Edition continues to take a global approach to world history, with an emphasis on analytical comparisons between and among cultures throughout history. This approach helps students to link events together in a broad comparative and global framework, thereby placing the contemporary world in a more meaningful historical context.

TABLE OF CONTENTS

PART I: THE FIRST CIVILIZATIONS AND THE RISE OF EMPIRES (PREHISTORY TO 500 C.E.).

1. The First Civilizations: The Peoples of Western Asia and Egypt.
2. Ancient India.
3. China in Antiquity.
4. The Civilization of the Greeks.
5. The First World Civilization: Rome, China, and the Emergence of the Silk Road.

PART II: NEW PATTERNS OF CIVILIZATION (500-1500 C.E.).

6. The Americas.
7. Ferment in the Middle East: The Rise of Islam.
8. Early Civilizations in Africa.
9. The Expansion of Civilization in Southern Asia.
10. The Flowering of Traditional China.
11. The East Asian Rimlands: Early Japan, Korea, and Vietnam.
12. The Making of Europe.
13. The Byzantine Empire and Crisis and Recovery in the West.

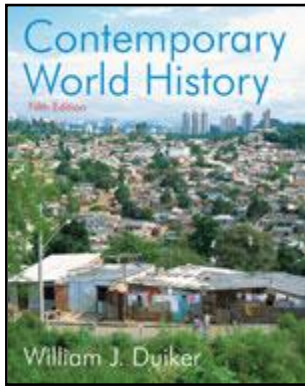
PART III: THE EMERGENCE OF NEW WORLD PATTERNS (1500-1800).

14. New Encounters: The Creation of a World Market.
15. Europe Transformed: Reform and State Building.
16. The Muslim Empires.
17. The East Asian World.

PART IV: MODERN PATTERNS OF WORLD HISTORY (1800-1945).

19. The Beginnings of Modernization: Industrialization and Nationalism in the Nineteenth Century
20. The Americas and Society and Culture in the West.
21. The High Tide of Imperialism.

22. Shadows over the Pacific: East Asia Under Challenge.
 23. The Beginning of the Twentieth-Century Crisis: War and Revolution.
 24. Nationalism, Revolution, and Dictatorship: Asia, The Middle East, and Latin America. from 1919 to 1939.
 25. The Crisis Deepens: World War II.
- PART V: TOWARD A GLOBAL CIVILIZATION? THE WORLD SINCE 1945.
26. East and West in the Grip of the Cold War.
 27. Brave New World: Communism on Trial.
 28. Europe and the Western Hemisphere Since 1945.
 29. Challenges of Nation Building in Africa and the Middle East.
 30. Toward the Pacific Century?
- Epilogue: A Global Civilization.



Contemporary World History, 5th Edition
William J. Duiker - The Pennsylvania State University

ISBN-10: 0495572713 ISBN-13: 9780495572718
384 Pages Paperbound
© 2010 Published

OVERVIEW

A comprehensive and balanced history of the world in the twentieth century and into the new millennium, William Duiker's text not only chronicles the key events in the revolutionary twentieth century, but also examines the underlying issues that have shaped the times. CONTEMPORARY WORLD HISTORY, 5E, takes a global approach to the subject while doing justice to the distinctive character of individual civilizations and regions. Duiker integrates political, economic, social, and cultural history, creating a chronologically ordered synthesis that gives students the true flavor of the most decisive moments in recent world history. In addition, Duiker's own photographs and selection of primary source documents, which illustrate much of the book, are especially effective in illustrating key points in the narrative. A new feature, "Film & History," presents a brief analysis of the plot as well as the historical significance, value, and accuracy of eight films, including such movies as "Khartoum" (1966), "Gandhi" (1982), "The Last Emperor" (1987), and "The Lives of Others" (2006).

TABLE OF CONTENTS

PART I: NEW WORLD IN THE MAKING.

1. The Rise of Industrial Society in the West.
2. The High Tide of Imperialism: Africa and Asia in an Era of Western Dominance.
3. Shadows over the Pacific: East Asia under Challenge.

PART II: CULTURES IN COLLISION.

4. War and Revolution: World War I and Its Aftermath.
5. Nationalism, Revolution, and Dictatorship: Africa, Asia, and Latin America from 1919 to 1939.
6. The Crisis Deepens: The Outbreak of World War II.

PART III: ACROSS THE IDEOLOGICAL DIVIDE.

7. East and West in the Grip of the Cold War.
8. The United States, Canada, and Latin America.
9. Brave New World: The Rise and Fall of Communism in the Soviet Union and Eastern Europe.
10. Postwar Europe: on the Path to Unity?
11. Toward the Pacific Century? Japan and the Little Tigers.

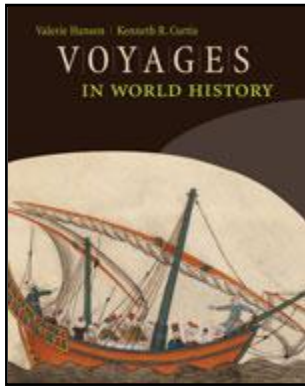
PART IV: THIRD WORLD RISING.

12. The East Is Red: China under Communism.
13. Nationalism Triumphant: The Emergence of Independent States in South and Southeast Asia.
14. Emerging Africa.
15. Ferment in the Middle East.

PART V: THE NEW MILLENNIUM.

- 16 Constructing a New World Order.

Suggested Reading.



Voyages in World History, 1st Edition

Valerie Hansen - Yale University

Kenneth Curtis - California State University, Long Beach

ISBN-10: 0618077200 ISBN-13: 9780618077205

1056 Pages Paperbound

© 2010 Published

OVERVIEW

The authors of VOYAGES IN WORLD HISTORY never forget that history is made up of the stories of people. Each chapter of this new text centers around a story—a traveler's account that highlights the book's main theme, the constant movement of people, goods, and ideas—locally, regionally, and around the globe. Chapter introductions are illustrated with images of the travelers and maps that show where and how he or she traveled. The travelers include rulers, explorers, poets, merchants, soldiers, missionaries and scholars, and their narratives provide a framework for each chapter and draw students into the stories of world history. Along the way, students learn critical reading skills by evaluating the traveler's observations and attitudes.

TABLE OF CONTENTS

1. THE PEOPLING OF THE WORLD, to 4000 B.C.E.

Traveler: Kennewick Man.

2. THE FIRST COMPLEX SOCIETIES IN THE EASTERN MEDITERRANEAN, CA. 4000–550 B.C.E.

Traveler: Gilgamesh.

3. ANCIENT INDIA AND THE RISE OF BUDDHISM, 2600 B.C.E.–C.E. 100.

Traveler: King Ashoka.

4. BLUEPRINT FOR EMPIRE: CHINA 1200 B.C.E.–220 C.E.

Traveler: Qin Shi Huangdi (the first emperor).

5. THE AMERICAS AND THE ISLANDS OF THE PACIFIC TO 1200 C.E.: DIFFERENT PATHS TO COMPLEX SOCIETY.

Traveler: Yax K'uk Mo' (Maya ruler).

6. NEW EMPIRES IN IRAN AND GREECE, 2000 B.C.E.–651 C.E.

Traveler: Herodotus (Greek historian).

7. THE ROMAN EMPIRE AND THE RISE OF CHRISTIANITY, 509 B.C.E.–476 C.E.

Traveler: Polybius (Roman historian).

8. HINDU AND BUDDHIST RULERS ALONG THE SILK ROADS OF ASIA, 100–1000 C.E.

Traveler: Xuanzang (Chinese Buddhist monk).

9. ISLAMIC EMPIRES OF WESTERN ASIA AND AFRICA, 600–1258.

Traveler: Khaizuran, the wife of the caliph.

10. THE MULTIPLE CENTERS OF EUROPE, 500–1000.

Traveler: Thorfinn Karlsefni and his wife Gudrid.

11. THE EXPANSION OF AFRICA'S TRADE NETWORKS, 1000–1500.

Traveler: Ibn Battuta.

12. CHINA'S COMMERCIAL REVOLUTION, CA. 900–1276.

Traveler: Li Qingzhao (Chinese woman poet).

13. EUROPE'S COMMERCIAL REVOLUTION, 1000–1400.

Traveler: Peter Abelard and Heloise.

14. THE MONGOL RULERS OF EURASIA AND THEIR SUCCESSORS, 1200–1500.

Traveler: William of Rubruck.

15. MARITIME EXPANSION IN THE ATLANTIC WORLD, 1400–1600.

Traveler: Christopher Columbus.

16. MARITIME EXPANSION AND EARLY MODERN CONNECTIONS IN AFRO-EURASIA, 1500–1660.

Traveler: Matteo Ricci.

17. RELIGION, POLITICS AND THE POWER BALANCE IN WESTERN EURASIA AND THE MEDITERRANEAN, 1500–1750.
Traveler: Jean de Chardin.
18. EMPIRES, COLONIES, AND PEOPLES OF THE AMERICAS, 1600–1750.
Traveler: Catalina de Erauso.
19. THE ATLANTIC SYSTEM: AFRICA, THE AMERICAS AND EUROPE, 1600–1808.
Traveler: Olaudah Equiano.
20. EMPIRES IN EARLY MODERN ASIA, 1650–1818.
Traveler: Xie Qinggao.
21. EUROPEAN SCIENCE AND THE FOUNDATIONS OF MODERN IMPERIALISM, 1600–1820.
Traveler: Joseph Banks.
22. REVOLUTIONS IN THE WEST, 1750–1830.
Traveler: Simón Bolívar.
23. THE INDUSTRIAL REVOLUTION AND EUROPEAN POLITICS, 1780–1880.
Traveler: Alexander Herzen.
24. ASIA AND THE MODERN WORLD, 1800–1910.
Traveler: Fukuzawa Yûkichi.
25. STATE BUILDING AND SOCIAL CHANGE IN THE AMERICAS, 1830-1895.
Traveler: Pauline Johnson-Tekahionwake.
26. THE NEW IMPERIALISM IN AFRICA AND SOUTHEAST ASIA, 1830–1914.
Traveler: King Khama of the Bangwato.
27. WAR, REVOLUTION, AND GLOBAL UNCERTAINTY, 1905–1928.
Traveler: Louise Bryant.
28. RESPONSES TO GLOBAL CRISIS, 1920–1939.
Traveler: Halide Edib.
29. THE SECOND WORLD WAR AND THE ORIGINS OF THE COLD WAR, 1939–1949.
Traveler: Nancy Wake.
30. THE COLD WAR AND DECOLONIZATION, 1949–1975.
Traveler: Ernesto Guevara.
31. TOWARD A NEW WORLD ORDER, 1975–2000.
Traveler: Nelson Mandela.
32. INTO THE TWENTY-FIRST CENTURY.



A History of Latin America, 8th Edition
Benjamin Keen -
Keith Haynes - The College of Saint Rose

ISBN-10: 0618783180 ISBN-13: 9780618783182
656 Pages Paperbound
© 2009 Published

OVERVIEW

This best-selling text for introductory Latin American history courses, *A History of Latin America*, encompasses political and diplomatic theory, class structure and economic organization, culture and religion, and the environment. The integrating framework is the dependency theory, the most popular interpretation of Latin American history, which stresses the economic relationship of Latin American nations to wealthier nations, particularly the United States. Spanning pre-historic times to the present, *A History of Latin America* uses both a chronological and a nation-by-nation approach, and includes the most recent historical analysis and the most up-to-date research. This is the most streamlined and cohesive edition yet, with substantial additions to pedagogy and chapter content. Expanded coverage of social and cultural history includes women, indigenous cultures, and Afro-Latino peoples.

TABLE OF CONTENTS

- I. The Colonial Heritage of Latin America.
 1. Ancient America.
Environment and Culture in Ancient America.
The Maya of Central America.
The Aztecs of Mexico.
The Incas of Peru.
 2. The Hispanic Background.
The Medieval Heritage of Iberia's Christian Kingdoms.
Ferdinand and Isabella: The Catholic Sovereigns.
The Hapsburg Era: Triumph and Tragedy.
 3. The Conquest of America.
The Great Voyages.
The Conquest of Mexico.
The Conquest of Peru.
How a Handful of Spaniards Won Two Empires.
The Quest for El Dorado.
 4. The Economic Foundations of Colonial Life.
Tribute and Labor in the Spanish Colonies.
The Colonial Economy.
Commerce, Smuggling, and Piracy.
 5. State, Church, and Society.
Political Institutions of the Spanish Empire.
The Church in the Indies.
The Structure of Class and Caste.
 6. Colonial Brazil.
The Beginning of Colonial Brazil.
Government and Church.
Masters and Slaves.
 7. The Bourbon Reforms and Spanish America.
Reform and Recovery.
Colonial Culture and the Enlightenment.
Creole Nationalism.

Colonial Society in Transition, 1750-1810: An Overview.
The Revolt of the Masses.

8. The Independence of Latin America.
Background of the Wars of Independence.
The Liberation of South America.
Mexico's Road to Independence.
Latin American Independence: A Reckoning.

II. Latin America in the Nineteenth Century.

9. Decolonization and the Search for National Identities, 1821-1870.
The Fruits of Independence.
Mexico.
Argentina.
Chile.
United Provinces of Central America.

10. Race, Nation, and the Meaning of Freedom, 1821-1888.
Brazil.
Peru.
Peruvian Politics and Economy.
Cuba.
Gran Columbia.

11. The Triumph of Neocolonialism and the Liberal State, 1870-1900.
The New Colonialism.
Mexican Politics and Economy.
Argentine Politics and Economy.
Chilean Politics and Economy.
Brazilian Politics and Economy.
Central American Politics and Economy.
Venezuelan Politics and Economy.
Columbian Politics and Economy.

12. Forging a New Nation: The Mexican Revolution and the Populist Challenge.
The Great Revolution, 1910-1920.
Reconstructing the State: Rule of the Millionaire Socialists.
Cárdenas and Populist Interlude.
The Big Bourgeoisie in Power, 1940-1976: Erosion of Reform.
Popular Culture and Resistance.

13. Brazil: Populism and the Struggle for Democracy in a Multiracial Society.
Decline and Fall of the Old Republic, 1914-1930.
Vargas and the Bourgeois Revolution, 1930-1954.
Reform and Reaction, 1954-1964.

14. Argentina: Populism, the Military, and the Struggle for Democracy.
The Export Economy.
Argentine Society.
The Radical Era, 1916-1930.
The "Infamous Decade," 1930-1943: Military Intervention and the State.
The Perón Era, 1943-1955.
Collapse of Populism: In the Shadow of Perón, 1955-1973.

15. Cuba: The Revolutionary Socialist Alternative to Populism.
Independence and the Spanish-Cuban-American War.
Dependent Development and Popular Struggle, 1902-1953.
The Revolution.
The Revolution in Power, 1959-2003.

16. Storm Over the Andes: Indigenous Rights and the Corporatist Military Alternative.
Neocolonialism, the Military, and Indigenous Resistance.
The Limits of Populism, 1952-1968.
Military Corporatism and Revolution, 1968-2000.

17. Chile: The Democratic Socialist Alternative.
Foreign Dependency and the Liberal Parliamentary Republic, 1891-1920.
Alessandri and the Rise of Populism, 1920-1970.
The Chilean Road to Socialism, 1970-1973.

18. Twilight of the Tyrants: Revolution and Prolonged Popular War in Central America.

Guatemala.

Nicaragua.

El Salvador.

19. Lands of Bolívar: Military Crisis, State Repression, and Popular Democracy.

Populism, Military Repression, and Authoritarian Politics in Colombia.

Resistance, 1934-1958.

Populism, Authoritarian Politics, and Bolivarian Revolution in Venezuela.

20. Deconstructing the State: Dictatorship and Neoliberal Markets.

Military Dictatorship and Neoliberalism in Brazil.

Military Dictatorship and Neoliberalism in Chile, 1973-2003.

Military Dictatorship and Neoliberalism in Argentina.

Neoliberalism and the Authoritarian State in Mexico, 1977-2003.

Foreign Intervention and Subversion of Democracy in Nicaragua.

21. Transcending Neoliberalism: Electoral Engaños and Popular Resistance to the Dictatorship of Markets.

Electoral Deception in Brazil.

Electoral Deception in Argentina.

Electoral Deception in Peru.

Electoral Deception in Chile.

Electoral Deception in Mexico.

Electoral Deception in Bolivia.

Electoral Deception in Ecuador.

Market Forces and State Regulation in the Cuban Model.

22. The Two Americas: United States-Latin American Relations.

U.S. Policy Objectives.

Prelude to Empire, 1810-1897.

An Imperial Power, 1898-1945.

Defending the Empire and Capitalism, 1945-1981.

The Return to "Gunboat Diplomacy," 1981-2003.

Toward a New World Order?



Societies, Networks, and Transitions: A Global History, 1st Edition

Craig A. Lockard - University of Wisconsin, Green Bay

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1128 Pages Casebound

© 2008 Published

OVERVIEW

Societies, Networks, and Transitions is a world history text that connects the different regions of the world through global themes. This innovative structure combines the accessibility of a regional approach with the rigor of comparative scholarship to show students world history in a truly global framework. The text also features a strong focus on culture and religion. Author and veteran teacher Craig Lockard engages students with a unique approach to cultural artifacts such as music and art. A range of pedagogical features—including focus questions, section summaries, and web-based study aids—supports students and instructors as they explore the interconnectedness of different people, places, and periods in the global past.

TABLE OF CONTENTS

Preface: Introducing World History.

PART I. FOUNDATIONS: ANCIENT SOCIETIES, TO CA. 600 B.C.E.

1. The Origins of Human Societies, to ca. 2000 B.C.E.
2. Ancient Societies in Mesopotamia, India, and Central Asia, 5000–600 B.C.E.
3. Ancient Societies in Africa and the Mediterranean, 5000–600 B.C.E.
4. Around the Pacific Rim: Eastern Eurasia and the Americas, 5000–600 B.C.E.

PART II. BLOSSOMING: THE CLASSICAL SOCIETIES AND THEIR LEGACIES, CA. 600 B.C.E.–CA. 600 C.E.

5. Eurasian Connections and New Traditions in East Asia, 600 B.C.E.–600 C.E.
6. Western Asia, the Eastern Mediterranean, and Regional Systems, 600–200 B.C.E.
7. Classical Societies in Southern and Central Asia, 600 B.C.E.–600 C.E.
8. Empires, Networks, and the Remaking of Europe, North Africa, and Western Asia, 500 B.C.E.–600 C.E.
9. Classical Societies and Regional Networks in Africa, the Americas, and Oceania, 600 B.C.E.–600 C.E.

PART III. EXPANDING HORIZONS: ENCOUNTERS AND TRANSFORMATIONS IN THE INTERMEDIATE ERA, CA. 600–1500.

10. The Rise, Power, and Connections of the Islamic World, 600–1500.
11. East Asian Traditions, Transformations, and Eurasian Encounters, 600–1500.
12. Expanding Horizons in Africa and the Americas, 600–1500.
13. South Asia, Central Asia, Southeast Asia, and Afro-Eurasian Connections, 600–1500.
14. Christian Societies in Medieval Europe, Byzantium, and Russia, 600–1500.

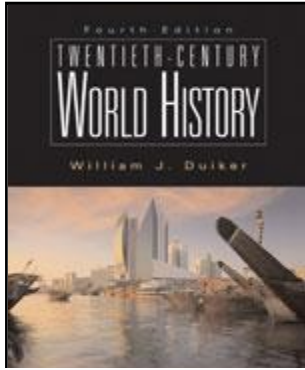
PART IV. CONNECTING THE GLOBE: FORGING NEW NETWORKS IN THE EARLY MODERN WORLD, 1450–1750.

15. Global Connections and the Remaking of Europe, 1450–1750.
16. New Challenges for Africa and the Islamic World, 1450–1750.
17. Americans, Europeans, Africans, and New Societies in the Americas, 1450–1750.
18. South Asia, Southeast Asia, and East Asia: Triumphs and Challenges, 1450–1750.

PART V. GLOBAL IMBALANCES: INDUSTRY, EMPIRE, AND THE MAKING OF THE MODERN WORLD, 1750–1945.

19. Modern Transitions: Revolutions, Industries, Ideologies, Empires, 1750–1914.
20. Changing Societies in Europe, the Americas, and Oceania, 1750–1914.
21. Africa, the Middle East, and Imperialism, 1750–1914.
22. South Asia, Southeast Asia, and Colonization, 1750–1914.
23. East Asia and the Russian Empire Face New Challenges, 1750–1914.

24. World Wars, European Revolutions, and Global Depression, 1914–1945.
 25. Imperialism and Nationalism in Asia, Africa, and Latin America, 1914–1945.
 - PART VI. GLOBAL SYSTEM: INTERDEPENDENCE AND CONFLICT IN THE CONTEMPORARY WORLD, SINCE 1945.
 26. The Remaking of the Global System, Since 1945.
 27. East Asian Resurgence, 1945–Present.
 28. Rebuilding Europe and Russia, Since 1945.
 29. The Americas and the Pacific Basin: New Roles in the Contemporary World, Since 1945.
 30. The Middle East, Sub-Saharan Africa, and New Conflicts in the Contemporary World, 1945–Present.
 31. South Asia, Southeast Asia, and Global Connections, 1945–Present.
- Glossary.



Twentieth-Century World History, 4th Edition
William J. Duiker - The Pennsylvania State University

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360 Pages Paperbound
© 2007 Published

OVERVIEW

A comprehensive and balanced history of the world in the twentieth century, William Duiker's text not only chronicles the key events in this revolutionary century, but also examines the underlying issues that have shaped the times. TWENTIETH-CENTURY WORLD HISTORY takes a global approach to the subject while doing justice to the distinctive character of individual civilizations and regions. Duiker integrates political, economic, social, and cultural history, creating a chronologically ordered synthesis that gives students the true flavor of the most decisive moments in recent world history. In addition, Duiker's own photographs and selection of primary source documents, which illustrate much of the book, are especially effective in illustrating key points in the narrative.

TABLE OF CONTENTS

PART I. NEW WORLD IN THE MAKING.

1. Rise of Industrial Society in the West.
2. Imperialism: Era of Western Dominance.
3. East Asia Under Challenge.

PART II. CULTURES IN COLLISION.

4. Revolution: Wwi and Its Aftermath.
5. Nationalism & Dictatorship: 1919 to 1939.
6. The Outbreak of World War II.

PART III. ACROSS THE IDEOLOGICAL DIVIDE.

7. East & West in the Grip of the Cold War.
8. The US, Canada & Latin America.
9. The Rise and Fall of Communism.
10. Postwar Europe: On the Path to Unity?
11. The East Is Red: China Under Communism.

PART IV. THIRD WORLD RISING.

12. Japan and the Little Tigers.
13. Independent States in South Asia.
14. Emerging Africa.
15. Ferment in the Middle East.

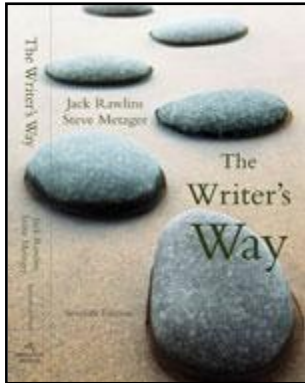
PART V. THE NEW MILLENNIUM.

16. Constructing a New World Order.

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Index.

DEVELOPMENTAL LANGUAGE: ENGLISH



The Writer's Way, 7th Edition

includes 2009 MLA Update Card

Jack Rawlins - California State University at Chico

Stephen Metzger - California State University at Chico

ISBN-10: 0495899569 ISBN-13: 9780495899563

448 Pages Paperbound

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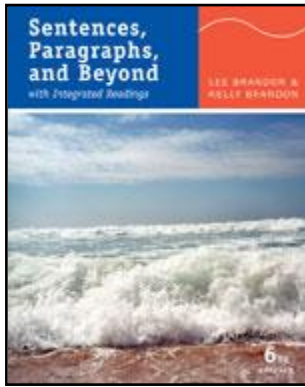
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OVERVIEW

Based on a "whole language approach," *The Writer's Way* is a dynamic, process-centered paperback rhetoric with readings. This text recognizes that students learn best by doing--and writers learn best when inspired by compelling reasons to write, aided by strong examples, and reinforced by immediate personal rewards. With frank advice offered in a supportive, encouraging tone, Rawlins and Metzger lead students step by step through the writing process, from pre-writing to polishing the final draft. Students receive the most up-to-date information on MLA documentation with the enclosed tri-fold card providing NEW 2009 MLA Handbook formats.

TABLE OF CONTENTS

- I. Introduction to Writing
 1. Learning to Write
 2. What Makes Writing Effective?
 3. Finding Something to Write About
 4. From First Thoughts to Drafts
 5. Thesis, Purpose, Audience, Tone, and Style
 6. Organization: Mapping, Outlining, and Abstracting
 7. Making the Draft Longer or Shorter
 8. Beginning, Ending, and Titling
 9. Peer Feedback
 10. Editing
 11. Personal Writing
 12. Writing to Inform
 13. Writing an Argument, Part 1: Thinking It Through
 14. Writing an Argument, Part 2: Selling the Case
 15. Writing in School: An Introduction
 16. Research
 17. Using Sources
 18. The Academic Research Paper



Sentences, Paragraphs, and Beyond: With Integrated Readings, 6th Edition

Lee Brandon - Mt. San Antonio College
Kelly Brandon - Santa Ana College

ISBN-10: 0495802131 ISBN-13: 9780495802136

528 Pages Paperbound

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OVERVIEW

SENTENCES, PARAGRAPHS, AND BEYOND is the first in the popular two-level Brandon series. Written in an informal, engaging tone, this easy-to-use text incorporates sentence-level grammar and mechanics with in-depth instruction in the writing process and patterns of writing. Reading instruction offers students the opportunity to analyze readings and practice the reading-based writing required in academic environments. Students will master common writing patterns while learning to use texts as a springboard for their own writing in the form of summary, reaction, or response. High-interest, distinctive readings are integrated throughout the Sixth Edition for analysis and as models of good writing. Clear, explicit writing prompts support each reading and focus on reading-based, cross-curricular, career-related, and general topics. In addition, the photo/art program promotes critical thinking, lively discussion, and analytical writing. Flexibility of instruction permits instructors to emphasize the paragraph or the essay, or to mix units.

TABLE OF CONTENTS

Student Overview.

The Flow of Writing: Icon and Theme.

Part I: Connecting Reading with Writing.

Part II: Writing Sentences.

Part III: Using the Writing Process.

Part IV: Writing Paragraphs and Essays: Instruction, with Integrated Reading Selections.

Strategies for Self-Improvement.

Writing Process Worksheet.

PART I: CONNECTING READING WITH WRITING.

1. From Reading to Writing.

PART II: WRITING SENTENCES.

2. Parts of Speech.

3. Subjects and Verbs.

4. Kinds of Sentences.

5. Combining Sentences.

6. Correcting Fragments, Comma Splices, and Run-Ons.

7. Verbs.

8. Pronouns.

9. Adjectives and Adverbs.

10. Balancing Sentence Parts.

11. Punctuation and Capitalization.

12. Spelling and Phrasing.

13. Brief Guide for ESL Students.

14. The Writing Process: Stage One: Exploring/Experimenting/Gathering Information.

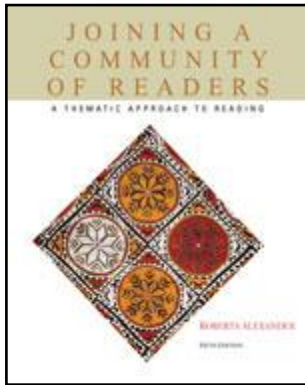
15. The Writing Process: Stage Two: Writing the Controlling Idea / Organizing and Developing Support.

16. The Writing Process: Stage Three: Writing / Revising / Editing.

17. Paragraphs and Essays.

PART IV: WRITING PARAGRAPHS AND ESSAYS: INSTRUCTION, WITH INTEGRATED READING SELECTIONS.

18. Descriptive Narration: Moving Through Space and Time.
19. Exemplification: Using Examples.
20. Analysis by Division: Examining the Parts.
21. Process Analysis: Writing About Doing.
22. Cause and Effect: Determining Reasons and Outcomes.
23. Comparison and Contrast: Showing Similarities and Differences.
24. Argument: Writing to Persuade.



Joining a Community of Readers, 5th Edition
Roberta Alexander - San Diego City College

ISBN-10: 0495802573 ISBN-13: 9780495802570
624 Pages Paperbound
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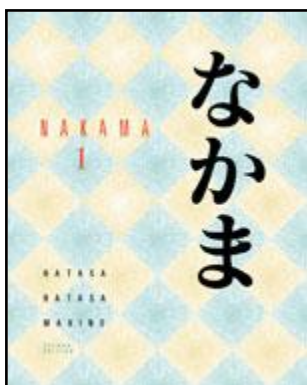
OVERVIEW

A contemporary thematic reader, JOINING A COMMUNITY OF READERS offers a holistic approach to developing reading skills and building schema. It maintains a constant focus on key skills while providing ample practice with shorter and longer readings. The real-life context for skill instruction engages students as they are able to stay with a single theme throughout each instructive unit. The authors' PRO reading strategy (Prepare to Read, Read Actively and Reflect, and Organize to Learn) places an emphasis on pre-reading, active reading, and post-reading activities throughout the text and gets students applying the skills in the context of the reading process. Significant attention is given to vocabulary skills and finding the main idea and support.

TABLE OF CONTENTS

1. The Reading Process: Becoming a Successful Student.
 2. Working with Words: Technology and You.
 3. Main Ideas: How We Look.
 4. Unstated Main Ideas: Challenges in Education.
 5. Main Ideas and Supporting Details: Popular Culture.
 6. Supporting Details: Television in Our Society.
 7. Patterns of Organization: Families.
 8. Inferences: Coming of Age.
 9. Critical Reading: Social Connectedness and Community.
- Additional Readings and Exercises.
Cumulative Mastery Tests.
A Reader's Toolkit.
Credits.
Index.

DEVELOPMENTAL LANGUAGE: JAPANESE



Nakama 1, 2nd Edition

Yukiko Abe Hatasa - Hiroshima University

Kazumi Hatasa - Purdue University; The Japanese School,
Middlebury College

Seiichi Makino - Princeton University

ISBN-10: 0495798185 ISBN-13: 9780495798187

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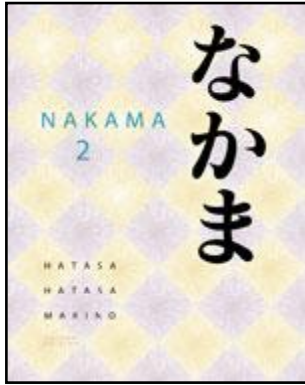
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OVERVIEW

NAKAMA 1 is a complete, flexible introductory program designed to present the fundamentals of the Japanese language to users. Presented in two parts, NAKAMA 1a and NAKAMA 1b, the program focuses on proficiency-based language learning, emphasizes practical communication and student interaction, and fosters the development of all four language skills and cultural awareness. Thematically organized chapters focus on high-frequency communicative situations and introduce students to the Japanese language and its three writing systems: hiragana, katakana, and kanji. Maintaining the program's balanced approach, the new edition features updated technology resources, new authentic art, and practical, contemporary vocabulary to enhance both teaching and learning.

TABLE OF CONTENTS

1. The Japanese Sound System and Hiragana.
2. Greetings and Introductions.
3. Daily Routines.
4. Japanese Cities.
5. Japanese Homes.
6. Leisure Time.
7. Favorite Things and Activities.
8. Shopping.
9. Restaurants and Invitations.
10. My Family.
11. Seasons and Weather.
12. Annual Events.



Nakama 2: Japanese Communication, Culture, Context, 2nd Edition

Yukiko Abe Hatasa - Hiroshima University

Kazumi Hatasa - Purdue University; The Japanese School, Middlebury College

Seiichi Makino - Princeton University

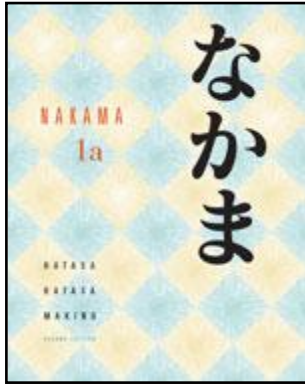
ISBN-10: 0547171641 ISBN-13: 9780547171647

592 Pages Paperbound

© 2011 Available Julho 2010

OVERVIEW

NAKAMA is a two year proficiency-oriented program that emphasizes practical communication and the development of listening, reading, writing, and speaking skills. The eleven thematic chapters, plus one preliminary chapter, focus on high-frequency communication situations; while chapter dialogues illustrate typical daily events representative in Japanese life and provide realistic contexts in which to learn vocabulary and grammar.



Nakama 1A, 2nd Edition

Yukiko Abe Hatasa - Hiroshima University

Kazumi Hatasa - Purdue University; The Japanese School,
Middlebury College

Seiichi Makino - Princeton University

ISBN-10: 0618966285 ISBN-13: 9780618966288

304 Pages Paperbound

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OVERVIEW

Nakama 1 is a complete, flexible introductory program designed to present the fundamentals of the Japanese language to college students. Presented in two parts, Nakama 1a and Nakama 1b, the program focuses on proficiency-based language learning, emphasizes practical communication and student interaction, and fosters the development of all four language skills and cultural awareness. Thematically organized chapters focus on high-frequency communicative situations and introduce students to the Japanese language and its three writing systems: hiragana, katakana, and kanji. Maintaining the program's balanced approach, the new edition features updated technology resources, new authentic art, and practical, contemporary vocabulary to enhance both teaching and learning.

TABLE OF CONTENTS

Chapter 1: The Japanese Sound System and Hiragana.

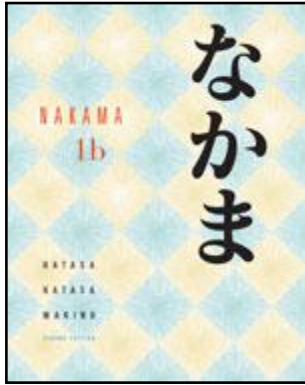
Chapter 2: Greetings and Introductions.

Chapter 3: Daily Routines.

Chapter 4: Japanese Cities.

Chapter 5: Japanese Homes.

Chapter 6: Leisure Time.



Nakama 1B: Introductory Japanese Communication, Culture, Context, 2nd Edition

Yukiko Abe Hatasa - Hiroshima University

Kazumi Hatasa - Purdue University; The Japanese School, Middlebury College

Seiichi Makino - Princeton University

ISBN-10: 0547208405 ISBN-13: 9780547208404

320 Pages

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OVERVIEW

Nakama 1 is a complete, flexible introductory program designed to present the fundamentals of the Japanese language to college students. Presented in two parts, Nakama 1a and Nakama 1b, the program focuses on proficiency-based language learning, emphasizes practical communication and student interaction, and fosters the development of all four language skills and cultural awareness. Thematically organized chapters focus on high-frequency communicative situations and introduce students to the Japanese language and its three writing systems: hiragana, katakana, and kanji. Maintaining the program's balanced approach, the new edition features updated technology resources, new authentic art, and practical, contemporary vocabulary to enhance both teaching and learning.

TABLE OF CONTENTS

7. Favorite Things & Activities.
8. Shopping.
9. Restaurants & Invitations.
10. My Family.
11. Seasons & Weather.
12. Annual Events.

DEVELOPMENTAL LANGUAGE: SPANISH



Nuestras culturas: An Intermediate Course in Spanish, 1st Edition

Brenda Barceló - University of California, Santa Cruz

ISBN-10: 061857459X ISBN-13: 9780618574599

256 Pages Paperbound

© 2009 Published

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OVERVIEW

Nuestras culturas targets a broad spectrum of student interests in order to foster linguistic competence at the intermediate level of Spanish. The program's title points both to the contrast between the Hispanic and American cultures as well as to the diversity within the Hispanic world. More than expanding students' vocabulary, grammar, and cultural awareness beyond the basic survival level, the text offers the meaningful input, structured output, and communicative activities that are essential to the development of solid language skills. Conforming to the National Foreign Language Standards, Nuestras culturas takes into account the three communicative modes--interpretive, interactive, and presentational--as well as the 3Ps of culture--perspectives, practices, and products. Cultural themes are incorporated throughout each chapter, treating culture from both a social science as well as humanistic perspective.

TABLE OF CONTENTS

Lección 1. Entre la gente

Lección 2. Un encuentro

Lección 3. Las generaciones

Lección 4. Nuestras horas

Lección 5. Un gesto

Lección 6. ¿Sales conmigo?

Lección 7. Un legado histórico

Lección 8. El hospedaje