

## 2012 Carnegie Learning Chapter15 Math Grade 8

This book theoretically and practically updates major economic ideas such as demand and supply, rational choice and expectations, bounded rationality, behavioral economics, information asymmetry, pricing, efficient market hypothesis, game theory, mechanism design, portfolio theory, causality and financial engineering in the age of significant advances in man-machine systems. The advent of artificial intelligence has changed many disciplines such as engineering, social science and economics. Artificial intelligence is a computational technique which is inspired by natural intelligence concepts such as the swarming of birds, the working of the brain and the pathfinding of the ants. *Artificial Intelligence and Economic Theory: Skynet in the Market* analyses the impact of artificial intelligence on economic theories, a subject that has not been studied. It also introduces new economic theories and these are rational counterfactuals and rational opportunity costs. These ideas are applied to diverse areas such as modelling of the stock market, credit scoring, HIV and interstate conflict. Artificial intelligence ideas used in this book include neural networks, particle swarm optimization, simulated annealing, fuzzy logic and genetic algorithms. It, furthermore, explores ideas in causality including Granger as well as the Pearl causality models.

The *Routledge Handbook of Second Language Acquisition* brings together fifty leading international figures in the field to produce a state-of-the-art overview of Second Language Acquisition. The Handbook covers a wide range of topics related to Second Language Acquisition: language in context, linguistic, psycholinguistic, and neurolinguistic theories and perspectives, skill learning, individual differences, L2 learning settings, and language assessment. All chapters introduce the reader to the topic, outline the core issues, then explore the pedagogical application of research in the area and possible future development. The *Routledge Handbook of Second Language Acquisition* is an essential resource for all those studying and researching Second Language Acquisition.

Carnegie Learning Algebra III Integrated Math IIIA Common Core Math Program

The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence. Reinforcement learning, one of the most active research areas in artificial intelligence, is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In *Reinforcement Learning*, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage of other topics. Like the first edition, this second edition focuses on core online learning algorithms, with the more mathematical material set off in shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement learning.

This Handbook reviews a wealth of research in cognitive and educational psychology that investigates how to enhance learning and instruction to aid students struggling to learn and to advise teachers on how best to support student learning. The Handbook includes features that inform readers about how to improve instruction and student achievement based on scientific evidence across different domains, including science, mathematics, reading and writing. Each chapter supplies a description of the learning goal, a balanced presentation of the current evidence about the efficacy of various approaches to obtaining that learning goal, and a discussion of important future directions for research in this area. It is the ideal resource for researchers continuing their study of this field or for those only now beginning to explore how to improve student achievement.

First published in 2002. Routledge is an imprint of Taylor & Francis, an informa company.

*Research Methods For Business, 8th Edition* explains the principles and practices of using a systematic, organized method for solving problematic issues in business organizations. Designed to help students view research from the perspective of management, this popular textbook guides students through the entire business research process. Organized into six main themes—Introduction, Defining the Management and the Research Problem, Theory, Collecting Information, Drawing Conclusions, and Writing and Presenting the Research Report—the text enables students to develop the skills and knowledge required to successfully create, conduct, and analyze a research project. Now in its eighth edition, this popular textbook has been thoroughly updated to incorporate substantial new and expanded content, and reflect current research methods and practices. The text uses a unique blended learning approach, allowing instructors the flexibility to custom-tailor their courses to fit their specific needs. This innovative approach combines the face-to-face classroom methods of the instructor with internet-based activities that enable students to study what they want, when they want, at their own pace.

For one-semester courses in labor economics at the undergraduate and graduate levels, this book provides an overview of labor market behavior that emphasizes how theory drives public policy. *Modern Labor Economics: Theory and Public Policy, Twelfth Edition* gives students a thorough overview of the modern theory of labor market behavior, and reveals how this theory is used to analyze public policy. Designed for students who may not have extensive backgrounds in economics, the text balances theoretical coverage with examples of practical applications that allow students to see concepts in action. Experienced educators for nearly four decades, co-authors Ronald Ehrenberg and Robert Smith believe that showing students the social implications of the concepts discussed in the course will enhance their

motivation to learn. As such, the text presents numerous examples of policy decisions that have been affected by the ever-shifting labor market. This text provides a better teaching and learning experience for you and your students. It will help you to: Demonstrate concepts through relevant, contemporary examples: Concepts are brought to life through analysis of hot-button issues such as immigration and return on investment in education. Address the Great Recession of 2008: Coverage of the current economic climate helps students place course material in a relevant context. Help students understand scientific methodology: The text introduces basic methodological techniques and problems, which are essential to understanding the field. Provide tools for review and further study: A series of helpful in-text features highlights important concepts and helps students review what they have learned.

This is the eagerly-anticipated revision to one of the seminal books in the field of software architecture which clearly defines and explains the topic.

Test Prep Book's PSAT Reading and Writing Workbook: PSAT Prep 2018 & 2019 English Study Guide & 2 Practice Tests Developed by Test Prep Books for test takers trying to achieve passing PSAT scores Reading and Writing exam, this comprehensive study guide includes:

-Quick Overview -Test-Taking Strategies -Introduction -Reading -Writing and Language -Practice Questions -Detailed Answer Explanations  
Disclaimer: PSAT/NMSQT(R) is a trademark registered by the College Board and the National Merit Scholarship Corporation, which were not involved in the production of, and does not endorse, this product. Each section of the test has a comprehensive review created by Test Prep Books that goes into detail to cover all of the content likely to appear on the PSAT Reading and Writing test. The Test Prep Books PSAT reading practice test questions are each followed by detailed answer explanations. If you miss a question, it's important that you are able to understand the nature of your mistake and how to avoid making it again in the future. The answer explanations will help you to learn from your mistakes and overcome them. Understanding the latest test-taking strategies is essential to preparing you for what you will expect on the exam. A test taker has to not only understand the material that is being covered on the test, but also must be familiar with the strategies that are necessary to properly utilize the time provided and get through the test without making any avoidable errors. Test Prep Books has drilled down the top test-taking tips for you to know. Anyone planning to take the PSAT Writing and Language test should take advantage of the review material, practice test questions, and test-taking strategies contained in this Test Prep Books study guide.

Distributed Computing Through Combinatorial Topology describes techniques for analyzing distributed algorithms based on award winning combinatorial topology research. The authors present a solid theoretical foundation relevant to many real systems reliant on parallelism with unpredictable delays, such as multicore microprocessors, wireless networks, distributed systems, and Internet protocols. Today, a new student or researcher must assemble a collection of scattered conference publications, which are typically terse and commonly use different notations and terminologies. This book provides a self-contained explanation of the mathematics to readers with computer science backgrounds, as well as explaining computer science concepts to readers with backgrounds in applied mathematics. The first section presents mathematical notions and models, including message passing and shared-memory systems, failures, and timing models. The next section presents core concepts in two chapters each: first, proving a simple result that lends itself to examples and pictures that will build up readers' intuition; then generalizing the concept to prove a more sophisticated result. The overall result weaves together and develops the basic concepts of the field, presenting them in a gradual and intuitively appealing way. The book's final section discusses advanced topics typically found in a graduate-level course for those who wish to explore further. Named a 2013 Notable Computer Book for Computing Methodologies by Computing Reviews Gathers knowledge otherwise spread across research and conference papers using consistent notations and a standard approach to facilitate understanding Presents unique insights applicable to multiple computing fields, including multicore microprocessors, wireless networks, distributed systems, and Internet protocols Synthesizes and distills material into a simple, unified presentation with examples, illustrations, and exercises

The intent of these notes is to provide an appreciation of sequencing theory, and to develop an awareness of the combinatorial aspects of sequencing problems. An understanding of the ideas and concepts presented in these notes will provide the necessary background to enable further study in this rapidly growing subject. These notes have been used as a part of one-semester Courses in Operations Research for both senior and first-year graduate students. Following the introductory chapter, several classes of scheduling models are discussed in Chapter 2. Chapter 3 is devoted to discussing the characteristics of several types of criteria that have been proposed in the literature. Because of the importance of the combinatorial properties in the analysis of scheduling models, various combinatorial aspects are treated in Chapter 4. The primary objective of such a treatment is to provide the reader with an insight into the nature of the problem. Due to the tremendous number of sequences involved, and the fact that many sequences have the same schedule time, statistical sampling has elicited a great deal of theoretical studies. Two such studies, one of which has evolved from my research, are reported in Chapter 5. Many references to basic sources are cited at the end of each chapter to provide a guide for further readings. I am indebted to Professor Santa Arora of the University of Minnesota who introduced me to the subject during my graduate career.

This text develops a comprehensive theory of programming languages based on type systems and structural operational semantics. Language concepts are precisely defined by their static and dynamic semantics, presenting the essential tools both intuitively and rigorously while relying on only elementary mathematics. These tools are used to analyze and prove properties of languages and provide the framework for combining and comparing language features. The broad range of concepts includes fundamental data types such as sums and products, polymorphic and abstract types, dynamic typing, dynamic dispatch, subtyping and refinement types, symbols and dynamic classification, parallelism and cost semantics, and concurrency and distribution. The methods are directly applicable to language implementation, to the development of logics for reasoning about programs, and to the formal verification language properties such as type safety. This thoroughly revised second edition includes exercises at the end of nearly every chapter and a new chapter on type refinements.

Easy-to-apply, scientifically-based approaches for engaging students in the classroom Cognitive scientist Dan Willingham focuses his acclaimed research on the biological and cognitive basis of learning. His book will help teachers improve their practice by explaining how they and their students think and learn. It reveals-the importance of story, emotion, memory, context, and routine in building knowledge and creating lasting learning experiences. Nine, easy-to-understand principles with clear applications for the classroom Includes surprising findings, such as that intelligence is malleable, and that you cannot develop "thinking skills" without facts How an understanding of the brain's workings can help teachers hone their teaching skills "Mr. Willingham's answers apply just as well outside the classroom. Corporate trainers, marketers and, not least, parents -anyone who cares about how we learn-should find his book valuable reading." —Wall Street Journal Introduction to Corrections provides students with an understanding of basic concepts in the field of corrections. Designed for introductory corrections courses in criminal justice programs at two- and four-year schools, for both traditional ground and online settings, it offers comprehensive coverage of both institutional and community corrections, with particular emphasis on the perspective of the practitioner. Students taking corrections classes often have wild misconceptions about prison work and the corrections environment – misconceptions typically derived from movies and the news, and even current textbooks. In this new text, Robert Hanser uses his own on-the-ground experience to colorfully explain how the corrections system actually works, and what it's like to be a part of it.

In this volume cultural, social and cognitive influences on the research and teaching of mathematical modelling are explored from a variety of theoretical and practical perspectives. The authors of the current volume are all members of the International Community of Teachers of

Mathematical Modelling and Applications, the peak research body in this field. A distinctive feature of this volume is the high number of authors from South American countries. These authors bring quite a different perspective to modelling than has been showcased in previous books in this series, in particular from a cultural point of view. As well as recent international research, there is a strong emphasis on pedagogical issues including those associated with technology and assessment, in the teaching and learning of modelling. Applications at various levels of education are exemplified. The contributions reflect common issues shared globally and represent emergent or on-going challenges.

Curriculum Leadership: Strategies for Development and Implementation, Third Edition is a one-of-a-kind resource written for educational leaders, teachers, and administrators. Responding to the need for globally connected classrooms and innovative leadership, this unique text provides a rich and inclusive foundation of curriculum. The authors draw upon a wide range of research and experience to provide readers with creative, up-to-date curriculum strategies and ideas. In sharing innovative programs, learning experiences, and new approaches, they build a solid connection for curriculum development from theory to practice, helping future leaders in education meet the global challenges of our time.

A global examination of what influences women's participation in computing and what can be done to fix the gender gap.

The revision of this well-respected text presents a balanced approach of the classical and Bayesian methods and now includes a chapter on simulation (including Markov chain Monte Carlo and the Bootstrap), coverage of residual analysis in linear models, and many examples using real data. Probability & Statistics, Fourth Edition, was written for a one- or two-semester probability and statistics course. This course is offered primarily at four-year institutions and taken mostly by sophomore and junior level students majoring in mathematics or statistics. Calculus is a prerequisite, and a familiarity with the concepts and elementary properties of vectors and matrices is a plus.

Secondary mathematics teachers are frequently required to take a large number of mathematics courses – including advanced mathematics courses such as abstract algebra – as part of their initial teacher preparation program and/or their continuing professional development. The content areas of advanced and secondary mathematics are closely connected. Yet, despite this connection many secondary teachers insist that such advanced mathematics is unrelated to their future professional work in the classroom. This edited volume elaborates on some of the connections between abstract algebra and secondary mathematics, including why and in what ways they may be important for secondary teachers. Notably, the volume disseminates research findings about how secondary teachers engage with, and make sense of, abstract algebra ideas, both in general and in relation to their own teaching, as well as offers itself as a place to share practical ideas and resources for secondary mathematics teacher preparation and professional development. Contributors to the book are scholars who have both experience in the mathematical preparation of secondary teachers, especially in relation to abstract algebra, as well as those who have engaged in related educational research. The volume addresses some of the persistent issues in secondary mathematics teacher education in connection to advanced mathematics courses, as well as situates and conceptualizes different ways in which abstract algebra might be influential for teachers of algebra. Connecting Abstract Algebra to Secondary Mathematics, for Secondary Mathematics Teachers is a productive resource for mathematics teacher educators who teach capstone courses or content-focused methods courses, as well as for abstract algebra instructors interested in making connections to secondary mathematics.

Calculus with Applications, Tenth Edition (also available in a Brief Version containing Chapters 1-9) by Lial, Greenwell, and Ritchey, is our most applied text to date, making the math relevant and accessible for students of business, life science, and social sciences. Current applications, many using real data, are incorporated in numerous forms throughout the book, preparing students for success in their professional careers. With this edition, students will find new ways to get involved with the material, such as Your Turn exercises and Apply It vignettes that encourage active participation. The MyMathLab(r) course for the text provides additional learning resources for students, such as video tutorials, algebra help, step-by-step examples, and graphing calculator help. The course also features many more assignable exercises than the previous edition.

"This book offers a complete look into the field of cyber behavior, surveying case studies, research, frameworks, techniques, technologies, and future developments relating to the way people interact and behave online"--Provided by publisher.

Appropriate for upper-division undergraduate and graduate level courses in computer vision found in departments of computer science, computer engineering and electrical engineering, this book offers a treatment of modern computer vision methods. Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also available through the book's supporting website to help course instructors prepare their lectures.

The National Science Foundation funded a synthesis study on the status, contributions, and future direction of discipline-based education research (DBER) in physics, biological sciences, geosciences, and chemistry. DBER combines knowledge of teaching and learning with deep knowledge of discipline-specific science content. It describes the discipline-specific difficulties learners face and the specialized intellectual and instructional resources that can facilitate student understanding. Discipline-Based Education Research is based on a 30-month study built on two workshops held in 2008 to explore evidence on promising practices in undergraduate science, technology, engineering, and mathematics (STEM) education. This book asks questions that are essential to advancing DBER and broadening its impact on undergraduate science teaching and learning. The book provides empirical research on undergraduate teaching and learning in the sciences, explores the extent to which this research currently influences undergraduate instruction, and identifies the intellectual and material resources required to further develop DBER. Discipline-Based Education Research provides guidance for future DBER research. In addition, the findings and recommendations of this report may invite, if not assist, post-secondary institutions to increase interest and research activity in DBER and improve its quality and usefulness across all natural science disciplines, as well as guide instruction and assessment across natural science courses to improve student learning. The book brings greater focus to issues of student attrition in the natural sciences that are

related to the quality of instruction. Discipline-Based Education Research will be of interest to educators, policy makers, researchers, scholars, decision makers in universities, government agencies, curriculum developers, research sponsors, and education advocacy groups.

Learn the proven, time-tested human relations principles from Dale Carnegie Training and discover how bring creativity, enthusiasm, and productivity to your job. With insights from leading figures in the corporate, entertainment, sports, academic, and political arenas, this comprehensive, step-by-step guide includes strategies to help you excel in your career. Featuring many useful, life-changing lessons including how to identify your leadership strengths; achieve your goals and increase your self-confidence; eliminate an “us vs. them” mentality; become a team player and strengthen cooperation among associates; balance work and leisure; control your worries; and energize your life, *The Leader in You* proves that the most important investment you will ever make is in yourself.

*Discrete Structures* introduces readers to the mathematical structures and methods that form the foundation of computer science and features multiple techniques that readers will turn to regularly throughout their careers in computer and information sciences. Over the course of five modules, students learn specific skills including binary and modular arithmetic, set notation, methods of counting, evaluating sums, and solving recurrences. They study the basics of probability, proof by induction, growth of functions, and analysis techniques. The book also discusses general problem-solving techniques that are widely applicable to real problems. Each module includes motivation applications, technique, theory, and further opportunities for application. Informed by extensive experience teaching in computer science programs, *Discrete Structures* has been developed specifically for first-year students in those programs. The material is also suitable for courses in computer engineering, as well as those for students who are transferring from other disciplines and just beginning their computer science or engineering education. Harriet Fell holds a Ph.D. in mathematics from the Massachusetts Institute of Technology, and is a professor emerita of computer science at Northeastern University. Dr. Fell is a double patent holder who has received grants from the National Institute of Health, the National Science Foundation, and the U.S. Department of Education. Javed A. Aslam holds a Ph.D. in computer science from the Massachusetts Institute of Technology and is a professor of computer science at Northeastern University and the associate dean of faculty in the College of Computer and Information Science. Dr. Aslam's research interests include information retrieval, machine learning, and the design and analysis of algorithms.

*Improvement Science: Promoting Equity in Schools* is intended for classroom teachers, school leaders, and district leaders charged with leading improvement efforts in schools. From questions such as “how do I develop a love of reading in my classroom?” to “how can I better manage student behavior during independent learning time?” to “what should we do to make sure kids of all races read at grade level by 3rd grade” to “how could we include families of all backgrounds as partners in learning” or “how do we increase our graduation rate among underserved students,” this book shares real-life examples from those who are currently leading equity-focused improvement in our classrooms and schools. If you are curious about how Improvement Science has been used, or how others have succeeded—or failed—at equity-focused improvement efforts in our classrooms and in our schools, or if you’re wondering how to spur discussions in school districts, universities, and communities about leading equity-focused improvement, this book is for you.

Teachers, students, family members, community members, principals and superintendents will be inspired to embrace Improvement Science as a method to improve equity in their schools. The book helps people new to Improvement Science to understand the basic steps to implement the process. If you’re a beginner, it provides some basic steps and a resource (<https://www.carnegiefoundation.org/our-ideas/six-core-principles-improvement/>) to help you understand the process better; for those with some experience, the book will be an excellent refresher and tool with functional suggestions to take your practice further. 1. Form a Team. 2. Examine Data. 3. Ask Why. 4. Read Research. 5. Get Perspective of Those Closest to the Problem. 6. Plan the Change. After you’ve done the above, then it’s time to test one idea, using short Plan Do Study Act cycles. These are short improvement cycles. Students are only in our classrooms generally for one year, so the cycles need to be short, perhaps even as short as one week, to ensure that every instructional move we are making truly does improve the experience of the students. Readers of *Improvement Science: Promoting Equity in Schools* will be taking an important step toward achieving the goal of producing socially just classrooms and schools. Perfect for courses such as: Culturally Responsive Learning Environments; Educating For Equity And Social Justice; Cultivating Culturally Responsive Classrooms; Integrating Methods And Curriculum Design; Inquiry, Assessment, And Instructional Design; Foundations Of Culturally And Linguistically Responsive Practice; Math Literacy; Physical Education; Professional Collaboration In Education; Language And Literacy Development Of Diverse Learners; Equal Opportunity: Racism; Diversity And Equity In Schools; Cultural Proficiency In Schools; Language And Power In Education; Teaching For Equity In Literacy; Supportive Classroom Communities; Cultural Diversity In Literature; Engaging Students In Writing; Introduction To School Leadership; Introduction To School Improvement; Teacher Leadership And School Improvement

An award-winning professor of economics at MIT and a Harvard University political scientist and economist evaluate the reasons that some nations are poor while others succeed, outlining provocative perspectives that support theories about the importance of institutions.

This Intergovernmental Panel on Climate Change Special Report (IPCC-SREX) explores the challenge of understanding and managing the risks of climate extremes to advance climate change adaptation. Extreme weather and climate events, interacting with exposed and vulnerable human and natural systems, can lead to disasters. Changes in the frequency and severity of the physical events affect disaster risk, but so do the spatially diverse and temporally dynamic patterns of exposure and vulnerability. Some types of extreme weather and climate events have increased in frequency or magnitude, but populations and assets at risk have also increased, with consequences for disaster risk. Opportunities for

managing risks of weather- and climate-related disasters exist or can be developed at any scale, local to international. Prepared following strict IPCC procedures, SREX is an invaluable assessment for anyone interested in climate extremes, environmental disasters and adaptation to climate change, including policymakers, the private sector and academic researchers.

This book covers elementary discrete mathematics for computer science and engineering. It emphasizes mathematical definitions and proofs as well as applicable methods. Topics include formal logic notation, proof methods; induction, well-ordering; sets, relations; elementary graph theory; integer congruences; asymptotic notation and growth of functions; permutations and combinations, counting principles; discrete probability. Further selected topics may also be covered, such as recursive definition and structural induction; state machines and invariants; recurrences; generating functions. A revision of the defining book covering the physics and classical mathematics necessary to understand electromagnetic fields in materials and at surfaces and interfaces. The third edition has been revised to address the changes in emphasis and applications that have occurred in the past twenty years.

Artificial Intelligence: A Modern Approach offers the most comprehensive, up-to-date introduction to the theory and practice of artificial intelligence. Number one in its field, this textbook is ideal for one or two-semester, undergraduate or graduate-level courses in Artificial Intelligence.

This book trains the next generation of scientists representing different disciplines to leverage the data generated during routine patient care. It formulates a more complete lexicon of evidence-based recommendations and support shared, ethical decision making by doctors with their patients. Diagnostic and therapeutic technologies continue to evolve rapidly, and both individual practitioners and clinical teams face increasingly complex ethical decisions. Unfortunately, the current state of medical knowledge does not provide the guidance to make the majority of clinical decisions on the basis of evidence. The present research infrastructure is inefficient and frequently produces unreliable results that cannot be replicated. Even randomized controlled trials (RCTs), the traditional gold standards of the research reliability hierarchy, are not without limitations. They can be costly, labor intensive, and slow, and can return results that are seldom generalizable to every patient population. Furthermore, many pertinent but unresolved clinical and medical systems issues do not seem to have attracted the interest of the research enterprise, which has come to focus instead on cellular and molecular investigations and single-agent (e.g., a drug or device) effects. For clinicians, the end result is a bit of a "data desert" when it comes to making decisions. The new research infrastructure proposed in this book will help the medical profession to make ethically sound and well informed decisions for their patients.

"Integrate Math III is the final course in the three-course Integrated Math series. With this course, students further explore quadratic functions and extend learning to polynomial functions. Students extend their understanding of arithmetic and geometric sequences to series, and their knowledge of trigonometric ratios to trigonometric functions. Additionally, students explore distributions of data, confidence intervals, and statistical significance." -- publisher

This volume comprises the authoritative work from the International Committee for the Conservation of the Industrial Heritage – the international group dedicated to industrial archaeology and heritage – detailing the latest approaches to the conservation of the global industrial heritage. With contributions from over thirty specialists in archaeology and industrial heritage, Industrial Heritage Re-tooled establishes the first set of comprehensive best practices for the management, conservation, and interpretation of historical industrial sites. This book:-defines the meaning and scope of industrial heritage within an international context;-addresses the identification and conservation of the material remains of industry;-covers subjects as diverse as documentation and recording of industrial heritage, industrial tourism, and the teaching of industrial heritage in museums, schools, and universities.

Precalculus is adaptable and designed to fit the needs of a variety of precalculus courses. It is a comprehensive text that covers more ground than a typical one- or two-semester college-level precalculus course. The content is organized by clearly-defined learning objectives, and includes worked examples that demonstrate problem-solving approaches in an accessible way. Coverage and Scope Precalculus contains twelve chapters, roughly divided into three groups. Chapters 1-4 discuss various types of functions, providing a foundation for the remainder of the course. Chapter 1: Functions Chapter 2: Linear Functions Chapter 3: Polynomial and Rational Functions Chapter 4: Exponential and Logarithmic Functions Chapters 5-8 focus on Trigonometry. In Precalculus, we approach trigonometry by first introducing angles and the unit circle, as opposed to the right triangle approach more commonly used in College Algebra and Trigonometry courses. Chapter 5: Trigonometric Functions Chapter 6: Periodic Functions Chapter 7: Trigonometric Identities and Equations Chapter 8: Further Applications of Trigonometry Chapters 9-12 present some advanced Precalculus topics that build on topics introduced in chapters 1-8. Most Precalculus syllabi include some of the topics in these chapters, but few include all. Instructors can select material as needed from this group of chapters, since they are not cumulative. Chapter 9: Systems of Equations and Inequalities Chapter 10: Analytic Geometry Chapter 11: Sequences, Probability and Counting Theory Chapter 12: Introduction to Calculus

The winners of the Nobel Prize in Economics upend the most common assumptions about how economics works in this gripping and disruptive portrait of how poor people actually live. Why do the poor borrow to save? Why do they miss out on free life-saving immunizations, but pay for unnecessary drugs? In Poor Economics, Abhijit V. Banerjee and Esther Duflo, two award-winning MIT professors, answer these questions based on years of field research from around the world. Called "marvelous, rewarding" by the Wall Street Journal, the book offers a radical rethinking of the economics of poverty and an intimate view of life on 99 cents a day. Poor Economics shows that creating a world without poverty begins with understanding the daily decisions facing the poor.

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