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The Development of Women and Young Professionals in STEM Careers - Michele Kruger 2019-09-04
This book is fluent and systematic. The authors work through the fears and ambitions of young people new to STEM careers in the professional environment. Often, there is a lack of mentors, which leaves a young STEM practitioner exposed and doubting their own abilities. This book encourages young professionals and women in STEM careers to know that they are not alone and provides insight into their ability to deal with the stress of developing into a successful professional. Features Presents a method or vehicle to fast track young professionals and women in STEM Includes key issues that they should be aware of as they grow and develop in their education and field Describes how STEM career women are owners of their own path and provides an understanding of engineering and the business of consulting Conveys how young professionals and women in STEM can be aware of their own productivity and enjoy what they do and the career path they have selected This book is ideal for those new to the engineering, science, and consulting fields, including students in science and engineering education, administrators, libraries, those involved in leadership, organization behavior, human resources, STEM, and other areas as well.

Constructivist Views on the Teaching and Learning of Mathematics - Robert Benjamin Davis 1990
Constructivist views on the teaching and learning of mathematics (Journal for research in mathematics education).
Third International Handbook of Mathematics Education - M.A. (Ken) Clements 2012-11-15
The four sections in this Third International Handbook are concerned with: (a) social, political and cultural dimensions in mathematics education; (b) mathematics education as a field of study; (c) technology in the mathematics curriculum; and (d) international perspectives on mathematics education. These themes are taken up by 84 internationally-recognized scholars, based in 26 different nations. Each of section is structured on the basis of past, present and future aspects. The first chapter in a section provides historical perspectives ("How did we get to where we are now?"); the middle chapters in a section analyze present-day key issues and themes ("Where are we now, and what recent events have been especially significant?"); and the final chapter in a section reflects on policy matters ("Where are we going, and what should we do?"). Readership: Teachers, mathematics educators, ed.policy makers, mathematicians, graduate students, undergraduate students. Large set

of authoritative, international authors.

Coefficient Regions for Schlicht Functions - Albert Charles Schaeffer 1950
In the calculus of variations there are two classical approaches: (a) study of specific problems using local variations; (b) study of a whole class of external problems and the investigation of the structure of the class as a whole. The various publications on this subject during the last ten years have been mainly concerned with the results of type (a) whereas this volume attempts to create a systematic approach to results of type (b), but that the included approach is not the only one.

Algebra and Trigonometry - 1988

Mathematics - 2002

Sets for Mathematics - F. William Lawvere 2003-01-27
In this book, first published in 2003, categorical algebra is used to build a foundation for the study of geometry, analysis, and algebra.

Mathematics, Structure and Method - Mary P. Dolciani 1985

Elements of Language - Lee Odell 2007

Calculus Deconstructed - Zbigniew H. Nitecki 2022-01-11
Calculus Deconstructed is a thorough and mathematically rigorous exposition of single-variable calculus for readers with some previous exposure to calculus techniques but not to methods of proof. This book is appropriate for a beginning Honors Calculus course assuming high school calculus or a "bridge course" using basic analysis to motivate and illustrate mathematical rigor. It can serve as a combination textbook and reference book for individual self-study. Standard topics and techniques in single-variable calculus are presented in context of a coherent logical structure, building on familiar properties of real numbers and teaching methods of proof by example along the way. Numerous examples reinforce both practical and theoretical understanding, and extensive historical notes explore the arguments of the originators of the subject.

No previous experience with mathematical proof is assumed: rhetorical strategies and techniques of proof (reductio ad absurdum, induction, contrapositives, etc.) are introduced by example along the way. Between the text and exercises, proofs are available for all the basic results of calculus for functions of one real variable.

The Bieberbach Conjecture - Sheng Gong 1999-07-12
In 1919, Bieberbach posed a seemingly simple conjecture. That ``simple'' conjecture challenged mathematicians in complex analysis for the following 68 years! In that time, a huge number of papers discussing the conjecture and its related problems were inspired. Finally in 1984, de Branges completed the solution. In 1989, Professor Gong wrote and published a short book in Chinese, The Bieberbach Conjecture, outlining the history of the related problems and de Branges' proof. The present volume is the English translation of that Chinese edition with modifications by the author. In particular, he includes results related to several complex variables. Open problems and a large number of new mathematical results motivated by the Bieberbach conjecture are included. Completion of a standard one-year graduate complex analysis course will prepare the reader for understanding the book. It would make a nice supplementary text for a topics course at the advanced undergraduate or graduate level.

Algebra: structure and method: book 1 - Mary P. Dolciani 1988

Algebra 2 and Trigonometry - Mary P. Dolciani 1974

An Open Door to Number Theory - Duff Campbell 2018-05-03
A well-written, inviting textbook designed for a one-semester, junior-level course in elementary number theory. The intended audience will have had exposure to proof writing, but not necessarily to abstract algebra. That audience will be well prepared by this text for a second-semester course focusing on algebraic number theory. The approach throughout is geometric and intuitive; there are over 400 carefully designed exercises, which include a balance of calculations, conjectures, and proofs. There are also nine substantial student projects on topics not usually covered in

a first-semester course, including Bernoulli numbers and polynomials, geometric approaches to number theory, the -adic numbers, quadratic extensions of the integers, and arithmetic generating functions.

Quantitative Literacy - Bernard L. Madison 2003

Learn Me Good - John Pearson 2006-06
"Jack Woodson was a thermal design engineer for four years until he was laid off from his job. Now, as a teacher (dealing with forty children), he faces new challenges. Conference calls have been replaced with parent conferences. Product testing has given way to standardized testing. Instead of business cards, Jack now passes out report cards. The only thing that hasn't changed noticeably is the maturity level of the people surrounding him all day. Learn Me Good is a hilarious first-person account, inspired by real life experiences. Through a series of emails to Fred Bommerson, his buddy who still works at Heat Pumps Unlimited, Jack chronicles a year-in-the-the life of a brand new teacher. He holds a March Mathness tournament, faces a child's urgent declaration of "My bowels be runnin'!" and mistakenly asks one girl's mother if she is her brother. With subject lines such as "Irritable Vowel Syndrome," "In math class, no one can hear you scream," and "I love the smell of Lysol in the morning," Jack writes each email with a dash of sarcasm and plenty of irreverent wit."--Cover.

Modern Algebra and Trigonometry - Mary P. Dolciani 1973

McDougal Littell Algebra 2 - 2003-04-15

The Unity of Combinatorics - Ezra Brown 2021-04-05
Combinatorics, or the art and science of counting, is a vibrant and active area of pure mathematical research with many applications. The Unity of Combinatorics succeeds in showing that the many facets of combinatorics are not merely isolated instances of clever tricks but that they have numerous connections and threads weaving them together to form a beautifully patterned tapestry of ideas. Topics include combinatorial designs, combinatorial games, matroids, difference sets,

Fibonacci numbers, finite geometries, Pascal's triangle, Penrose tilings, error-correcting codes, and many others. Anyone with an interest in mathematics, professional or recreational, will be sure to find this book both enlightening and enjoyable. Few mathematicians have been as active in this area as Richard Guy, now in his eighth decade of mathematical productivity. Guy is the author of over 300 papers and twelve books in geometry, number theory, graph theory, and combinatorics. In addition to being a life-long number-theorist and combinatorialist, Guy's co-author, Ezra Brown, is a multi-award-winning expository writer. Together, Guy and Brown have produced a book that, in the spirit of the founding words of the Carus book series, is accessible "not only to mathematicians but to scientific workers and others with a modest mathematical background."

Big Ideas of Early Mathematics - The Early Math Collaborative-Erikson Institute 2013-04-25
This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Note: This is the bound book only and does not include access to the Enhanced Pearson eText. To order the Enhanced Pearson eText packaged with a bound book, use ISBN 0133548635. In this unique guide, classroom teachers, coaches, curriculum coordinators, college students, and teacher educators get a practical look at the foundational concepts and skills of early mathematics, and see how to implement them in their early childhood classrooms. Big Ideas of Early Mathematics presents the skills educators need to organize for mathematics teaching and learning during the early years. For teachers of children ages three through six, the book provides foundations for further mathematics learning and helps facilitate long-term mathematical understanding. The Enhanced Pearson eText features embedded video. Improve mastery and retention with the Enhanced Pearson eText* The Enhanced Pearson eText provides a rich, interactive learning environment designed to improve student mastery of content. The Enhanced Pearson eText is: Engaging. The new interactive, multimedia learning features were developed by the authors and other

subject-matter experts to deepen and enrich the learning experience. Convenient. Enjoy instant online access from your computer or download the Pearson eText App to read on or offline on your iPad® and Android® tablet.* Affordable. Experience the advantages of the Enhanced Pearson eText for 40-65% less than a print bound book. * The Enhanced eText features are only available in the Pearson eText format. They are not available in third-party eTexts or downloads. *The Pearson eText App is available on Google Play and in the App Store. It requires Android OS 3.1-4, a 7" or 10" tablet, or iPad iOS 5.0 or later.

Introductory Analysis - Mary P. Dolciani 1990-11-01

Algebra 2 - 2008

Journal for Research in Mathematics Education - 1993

Abraham Robinson - Joseph Warren Dauben 2014-07-14
One of the most prominent mathematicians of the twentieth century, Abraham Robinson discovered and developed nonstandard analysis, a rigorous theory of infinitesimals that he used to unite mathematical logic with the larger body of historic and modern mathematics. In this first biography of Robinson, Joseph Dauben reveals the mathematician's personal life to have been a dramatic one: developing his talents in spite of war and ethnic repression, Robinson personally confronted some of the worst political troubles of our times. With the skill and expertise familiar to readers of Dauben's earlier works, the book combines an explanation of Robinson's revolutionary achievements in pure and applied mathematics with a description of his odyssey from Hitler's Germany to the United States via conflict-ridden Palestine and wartime Europe. Robinson was born in Prussia in 1918. As a boy, he fled with his mother and brother Saul to Palestine. A decade later he narrowly escaped from Paris as the Germans invaded France. Having spent the rest of World War II in England, at the Royal Aircraft Establishment in Farnborough, he began his teaching career at the Royal College of Aeronautics. Subsequently he moved to universities in Canada, Israel, and finally the United States. A joint appointment in mathematics and philosophy at UCLA led to a position at Yale University, where Robinson served as Sterling Professor of Mathematics until his untimely death at the age of fifty-five. Originally published in 1995. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

Double Affine Hecke Algebras - Ivan Cherednik 2005-03-24
This is an essentially self-contained monograph in an intriguing field of fundamental importance for Representation Theory, Harmonic Analysis, Mathematical Physics, and Combinatorics. It is a major source of general information about the double affine Hecke algebra, also called Cherednik's algebra, and its impressive applications. Chapter 1 is devoted to the Knizhnik-Zamolodchikov equations attached to root systems and their relations to affine Hecke algebras, Kac-Moody algebras, and Fourier analysis. Chapter 2 contains a systematic exposition of the representation theory of the one-dimensional DAHA. It is the simplest case but far from trivial with deep connections in the theory of special functions. Chapter 3 is about DAHA in full generality, including applications to Macdonald polynomials, Fourier transforms, Gauss-Selberg integrals, Verlinde algebras, and Gaussian sums. This book is designed for mathematicians and physicists, experts and students, for those who want to master the double Hecke algebra technique. Visit http://arxiv.org/math.QA/0404307 to read Chapter 0 and selected topics from other chapters.

Ten Cheap Lessons: Easy, Engaging Ideas for Every Secondary Classroom - Tom DeRosa 2008-01-22
Ten Cheap Lessons is not your ordinary teacher resource book. If you're tired of compilations of meaningless worksheets and boring busy work passing themselves off as "exciting hands-on activities," you're not alone.

This book is designed for real-life classrooms, where teachers have no time, no budget, and eager students just waiting for something to engage them. This book contains ten complete ideas that can be easily adapted for any topic in any secondary subject area. It's meant to be easy as possible for any teacher to start using immediately.

The Changing Shape of Geometry - Mathematical Association 2003-01-09
Collection of popular articles on geometry from distinguished mathematicians and educationalists.

Lightweight Electric/Hybrid Vehicle Design - John Fenton 2001
Lightweight Electric/Hybrid Vehicle Design, covers the particular automotive design approach required for hybrid/electrical drive vehicles. There is currently huge investment world-wide in electric vehicle propulsion, driven by concern for pollution control and depleting oil resources. The radically different design demands of these new vehicles requires a completely new approach that is covered comprehensively in this book. The book explores the rather dramatic departures in structural configuration necessary for purpose-designed electric vehicle including weight removal in the mechanical systems. It also provides a comprehensive review of the design process in the electric hybrid drive and energy storage systems. Ideal for automotive engineering students and professionals Lightweight Electric/Hybrid Vehicle Design provides a complete introduction to this important new sector of the industry. comprehensive coverage of all design aspects of electric/hybrid cars in a single volume packed with case studies and applications in-depth treatment written in a text book style (rather than a theoretical specialist text style)

Selections from The Principle of Relativity - Albert Einstein 2004-12-01
Einstein's essay, On the Electrodynamics of Moving Bodies, introduces his famous "principle of relativity," one of the twentieth century's most revolutionary concepts. In his introduction to this seminal work, the renowned physicist Stephen Hawking cuts through Einstein's mathematical complexities to explain this revolutionary concept in language that excites and informs the reader. This book features selections from a translation of the original essay, The Principle of Relativity, as well as an insightful biography of Einstein and Hawking's informative summary.

Ugly Lies the Bone - Stephen Laughton 2017-02-23
'Beauty is but skin deep, ugly lies the bone; beauty dies and fades away, but ugly holds its own.' After three tours of duty in Afghanistan, wounded veteran Jess finally returns home to Florida, where she must confront her scars - and a hometown that may have changed even more than her. Undergoing an experimental virtual reality therapy, she builds a breathtaking new world where she can escape her pain. As Jess advances further into that world, she begins to restore her relationships, her life and, slowly, herself. Ugly Lies the Bone received its European premiere at the National Theatre, London, in 2017, in a production directed by Indhu Rubasingham and starring Kate Fleetwood. It was a New York Times Critics' Pick during its sold-out run Off-Broadway in 2015.

Rehumanizing Mathematics for Black, Indigenous, and Latinx Students - Imani Goffney 2018
Mathematics education will never truly improve until it adequately addresses those students whom the system has most failed. The 2018 volume of Annual Perspectives in Mathematics Education (APME) series showcases the efforts of classroom teachers, school counselors and administrators, teacher educators, and education researchers to ensure mathematics teaching and learning is a humane, positive, and powerful experience for students who are Black, Indigenous, and/or Latinx. The book's chapters are grouped into three sections: Attending to Students' Identities through Learning, Professional Development That Embraces Community, and Principles for Teaching and Teacher Identity. To turn our schools into places where children who are Indigenous, Black, and Latinx can thrive, we need to rehumanize our teaching practices. The chapters in this volume describe a variety of initiatives that work to place these often marginalized students--and their identities, backgrounds, challenges, and aspirations--at the center of mathematics teaching and learning. We meet teachers who listen to and learn from their students

as they work together to reverse those dehumanizing practices found in traditional mathematics education. With these examples as inspiration, this volume opens a conversation on what mathematics educators can do to enable Latinx, Black, and Indigenous students to build on their strengths and fulfill their promise.

Mathematical People - Donald Albers 2008-09-18
This unique collection contains extensive and in-depth interviews with mathematicians who have shaped the field of mathematics in the twentieth century. Collected by two mathematicians respected in the community for their skill in communicating mathematical topics to a broader audience, the book is also rich with photographs and includes an introdu

Principles and Applications of Random Noise Theory - Julius S. Bendat 1977

Литература по педагогическим наукам и народному образованию - 1999

Pre-Algebra - Mary P. Dolciani 1996-01-01

Three Dimensions of Vocabulary Growth - Lewis M. Paternoster 1997-09-14
Teaches students how to learn from words, not just about them. Explains word origins and teaches word formation.

The Mathematics Teacher - 2005

Combinatorics: A Guided Tour - David R. Mazur 2020-02-19
Combinatorics is mathematics of enumeration, existence, construction, and optimization questions concerning finite sets. This text focuses on the first three types of questions and covers basic counting and existence principles, distributions, generating functions, recurrence relations, Pólya theory, combinatorial designs, error correcting codes, partially ordered sets, and selected applications to graph theory including the enumeration of trees, the chromatic polynomial, and introductory

Ramsey theory. The only prerequisites are single-variable calculus and familiarity with sets and basic proof techniques. The text emphasizes the brands of thinking that are characteristic of combinatorics: bijective and combinatorial proofs, recursive analysis, and counting problem classification. It is flexible enough to be used for undergraduate courses in combinatorics, second courses in discrete mathematics, introductory graduate courses in applied mathematics programs, as well as for independent study or reading courses. What makes this text a guided tour are the approximately 350 reading questions spread throughout its eight chapters. These questions provide checkpoints for learning and prepare the reader for the end-of-section exercises of which there are over 470. Most sections conclude with Travel Notes that add color to the material of the section via anecdotes, open problems, suggestions for further reading, and biographical information about mathematicians involved in the discoveries.

Euler's Gem - David Richeson 2012
Leonhard Euler's polyhedron formula describes the structure of many objects--from soccer balls and gemstones to Buckminster Fuller's buildings and giant all-carbon molecules. Yet Euler's formula is so simple it can be explained to a child. Euler's Gem tells the illuminating story of this indispensable mathematical idea. From ancient Greek geometry to today's cutting-edge research, Euler's Gem celebrates the discovery of Euler's beloved polyhedron formula and its far-reaching impact on topology, the study of shapes. In 1750, Euler observed that any polyhedron composed of V vertices, E edges, and F faces satisfies the equation $V - E + F = 2$. David Richeson tells how the Greeks missed the formula entirely; how Descartes almost discovered it but fell short; how nineteenth-century mathematicians widened the formula's scope in ways that Euler never envisioned by adapting it for use with doughnut shapes, smooth surfaces, and higher dimensional shapes; and how twentieth-century mathematicians discovered that every shape has its own Euler's formula. Using wonderful examples and numerous illustrations, Richeson presents the formula's many elegant and unexpected applications, such as showing why there is always some windless spot on earth, how to

measure the acreage of a tree farm by counting trees, and how many crayons are needed to color any map. Filled with a who's who of brilliant mathematicians who questioned, refined, and contributed to a remarkable theorem's development, Euler's Gem will fascinate every mathematics enthusiast.

Modern Algebra Structure and Method Book 1 - Mary P. Dolciani 1973