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[Greek Mathematical Thought and the Origin of Algebra](#) Springer
 Important study focuses on the revival and assimilation of ancient Greek mathematics in the 13th-16th centuries, via Arabic science, and the 16th-century development of symbolic algebra. This brought about the crucial change in the concept of number that made possible modern science — in which the symbolic "form" of a mathematical statement is completely inseparable from its "content" of physical meaning. Includes a translation of Vieta's Introduction to the Analytical Art. 1968 edition. Bibliography.
Ritual and Power Before the Classic Period Routledge
 Mathematics is the science of acts without things - and through this, of things one can define by acts. 1 Paul Valéry The essays collected in this volume form a mosaik of theory, research, and practice directed at the task of spreading mathematical knowledge. They address questions raised by the recurrent observation that, all too frequently, the present ways and means of teaching

mathematics generate in the student a lasting aversion against numbers, rather than an understanding of the useful and sometimes enchanting things one can do with them. Parents, teachers, and researchers in the field of education are well aware of this dismal situation, but their views about what causes the wide-spread failure and what steps should be taken to correct it have so far not come anywhere near a practicable consensus. The authors of the chapters in this book have all had extensive experience in teaching as well as in educational research. They approach the problems they have isolated from their own individual perspectives. Yet, they share both an overall goal and a specific fundamental conviction that characterized the efforts about which they write here. The common goal is to find a better way to teach mathematics. The common conviction is that knowledge cannot simply be transferred ready-made from parent to child or from teacher to student but has to be actively built up by each learner in his or her own mind.

[The Multiverse](#) Springer Science & Business Media

How can we deal with the diversity of theories in mathematics education? This was the main question that led the authors of this book to found the Networking Theories Group. Starting from the shared assumption that the existence of different theories is a resource for mathematics

education research, the authors have explored the possibilities of interactions between theories, such as contrasting, coordinating, and locally integrating them. The book explains and illustrates what it means to network theories; it presents networking as a challenging but fruitful research practice and shows how the Group dealt with this challenge considering five theoretical approaches, namely the approach of Action, Production, and Communication (APC), the Theory of Didactical Situations (TDS), the Anthropological Theory of the Didactic (ATD), the approach of Abstraction in Context (AiC), and the Theory of Interest-Dense Situations (IDS). A synthetic presentation of each theory and their connections shows how the activity of networking generates questions at the theoretical, methodological and practical levels and how the work on these questions leads to both theoretical and practical progress. The core of the book consists of four new networking case studies which illustrate what exactly can be gained by this approach and what kind of difficulties might arise.

Study Abroad 2006-2007 Gulf Professional Publishing

Unique in that it collects, presents, and synthesizes cutting edge research on different aspects of statistical reasoning and applies this research to the teaching of statistics to students at all

educational levels, this volume will prove of great value to mathematics and statistics education researchers, statistics educators, statisticians, cognitive psychologists, mathematics teachers, mathematics and statistics curriculum developers, and quantitative literacy experts in education and government.

[Interactive Decision Maps](#) Routledge

This book provides a comprehensive coverage of hybrid high-order methods for computational mechanics. The first three chapters offer a gentle introduction to the method and its mathematical foundations for the diffusion problem. The next four chapters address applications of increasing complexity in the field of computational mechanics: linear elasticity, hyperelasticity, wave propagation, contact, friction, and plasticity. The last chapter provides an overview of the main implementation aspects including some examples of Matlab code. The book is primarily intended for graduate students, researchers, and engineers working in related fields of application, and it can also be used as a support for graduate and doctoral lectures.

Vorlesungen Über Neuere Geometrie John Wiley & Sons

Study Abroad 2006-2007 contains some 2,900 entries concerning post-secondary education and training in all academic and professional fields in countries throughout the world. Key features include information on: Study opportunities and financial assistance available to students wishing to study in a foreign country; National systems of higher education; Open and distance learning (ODL) opportunities; Validation of foreign qualifications; How to search for quality institutions of higher education including warnings about bogus institutions. This is a trilingual edition: French/English/Spanish.

A Basic Course in Algebraic Topology Universidad Nacional Costa Rica

This volume is the first to offer a comprehensive, research-based, multi-faceted look at issues in early algebra. In recent years, the National Council for Teachers of Mathematics has recommended that algebra become a strand flowing throughout the K-12 curriculum, and the 2003 RAND Mathematics Study Panel has recommended that algebra be "the initial topical choice for focused and coordinated research and development [in K-12 mathematics]." This book provides a rationale for a stronger and more sustained approach to algebra in school, as well as concrete examples of how algebraic reasoning may be developed in the early grades. It is organized around three themes: The Nature of Early Algebra Students' Capacity for Algebraic Thinking Issues of Implementation: Taking Early Algebra to the Classrooms. The contributors to this landmark volume have been at the forefront of an effort to integrate algebra into the existing early grades mathematics curriculum. They include scholars who have been developing the conceptual foundations for such changes as well as researchers and developers who have led empirical investigations in school settings. Algebra in the Early Grades aims to bridge the worlds of research, practice, design, and theory for educators, researchers, students, policy makers, and curriculum developers in mathematics education.

[On the Shoulders of Giants](#) Springer Science & Business Media

When the Maya kings of Tikal dedicated their first carved monuments in the third century A.D., inaugurating the Classic period of Maya history that lasted for six centuries and saw the rise of such famous cities as Palenque, Copan and Yaxchilan, Maya civilization was already nearly a millennium old. Its first cities, such as Nakbe and El Mirador, had some of the largest temples ever raised in Prehispanic America, while others such as Cival showed even earlier evidence of complex rituals. The reality of this Preclassic Maya civilization has been documented by scholars over the past three decades: what had been seen as an age of simple village farming, belatedly responding

to the stimulus of more advanced peoples in highland Mesoamerica, is now known to have been the period when the Maya made themselves into one of the New World's most innovative societies. This book discusses the most recent advances in our knowledge of the Preclassic Maya and the emergence of their rainforest civilization, with new data on settlement, political organization, architecture, iconography and epigraphy supporting a contemporary theoretical perspective that challenges prior assumptions.

estudios del pasado y del futuro Editorial Universidad de Costa Rica

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[Rational Trigonometry to Universal Geometry](#) Springer Nature

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[Algebra in the Early Grades](#) National Academies Press

"... introduces a remarkable new approach to trigonometry and Euclidean geometry, with dramatic implications for mathematics teaching, industrial applications and the direction of mathematical research in geometry" -- p. vii.

[New Approaches to Numeracy](#) Courier Corporation

Since the volume may be of interest to a broad variety of people, it is arranged in parts that require different levels of mathematical background. Part I can be assessed by those interested in the application of visualization methods in decision making. In Part II computational methods are introduced in a relatively simple form. Part III is written for readers in applied mathematics interested in the theoretical basis of modern optimization.

[Ciencia y tecnología](#) Editorial Universidad de Costa Rica

This book provides glimpses into contemporary research in information systems & technology, learning, artificial intelligence (AI), machine learning, and security and how it applies to the real world, but the ideas presented also span the domains of telehealth, computer vision, the role and use of mobile devices, brain-computer interfaces, virtual reality, language and image processing and big data analytics and applications. Great research arises from asking pertinent research questions. This book reveals some of the authors' "beautiful questions" and how they develop the subsequent "what if" and "how" questions, offering readers food for thought and whetting their

appetite for further research by the same authors.

Teachers Talking about Their Classrooms Editorial Universidad de Costa Rica

This textbook is intended for a course in algebraic topology at the beginning graduate level. The main topics covered are the classification of compact 2-manifolds, the fundamental group, covering spaces, singular homology theory, and singular cohomology theory. These topics are developed systematically, avoiding all unnecessary definitions, terminology, and technical machinery. The text consists of material from the first five chapters of the author's earlier book, Algebraic Topology; an Introduction (GTM 56) together with almost all of his book, Singular Homology Theory (GTM 70). The material from the two earlier books has been substantially revised, corrected, and brought up to date.

A Primer with Applications to Solid Mechanics Historia de las matemáticas en Costa Rica una introducción

What mathematics should be learned by today's young people as well as tomorrow's workforce? On the Shoulders of Giants is a vision of richness of mathematics expressed in essays on change, dimension, quantity, shape, and uncertainty, each of which illustrate fundamental strands for school mathematics. These essays expand on the idea of mathematics as the language and science of patterns, allowing us to realize the importance of providing hands-on experience and the development of a curriculum that will enable students to apply their knowledge to diverse numerical problems.

memorias Tercer Congreso nacional de matemáticas Springer Nature

The concept of understanding in mathematics with regard to mathematics education is considered in this volume. The main problem for mathematics teachers being how to facilitate their students' understanding of the mathematics being taught. In combining elements of maths, philosophy, logic, linguistics and the psychology of maths education from her own and European research, Dr Sierpiska considers the contributions of the social and cultural contexts to understanding. The outcome is an insight into both mathematics and understanding.

Disquisitiones Arithmeticae Springer

Mathematica Navigator gives you a general introduction to Mathematica. The book emphasizes graphics, methods of applied mathematics and statistics, and programming. Mathematica Navigator can be used both as a tutorial and as a handbook. While no previous experience with Mathematica is required, most chapters also include advanced material, so that the book will be a valuable resource for both beginners and experienced users.

[Computational Homology](#) Springer Science & Business Media

Gathers thirteen stories about the four seasons, why animals fear the porcupine, a hunter who lives with his prey, and the treachery of two corn maidens

United Nations Educational

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revista de la Universidad de Costa Rica Springer

This book reviews the Teacher Education and Development Study: Learning to Teach Mathematics, which tested 23,000 primary and secondary level math teachers from 16 countries on content knowledge and asked their opinions on beliefs and opportunities to learn.

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