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The SimCalc Vision and Contributions Stephen J. Hegedus 2012-12-16 This volume provides essential guidance for transforming mathematics learning in schools through the use of innovative technology, pedagogy, and curriculum. It presents clear, rigorous evidence of the impact technology can have in improving students learning of important yet complex mathematical concepts -- and goes beyond a focus on technology alone to clearly explain how teacher professional development, pedagogy, curriculum, and student participation and identity each play an essential role in transforming mathematics classrooms with technology. Further, evidence of effectiveness is complemented by insightful case studies of how key factors lead to enhancing learning, including the contributions of design research, classroom discourse, and meaningful assessment. The volume organizes over 15 years of sustained research by multiple investigators in different states and countries who together developed an approach called "SimCalc" that radically transforms how Algebra and Calculus are taught. The SimCalc program engages students around simulated motions, such as races on a soccer field, and builds understanding using visual representations such as graphs, and familiar representations such as stories to help students to develop meaning for more abstract mathematical symbols. Further, the SimCalc program leverages classroom wireless networks to increase participation by all students in doing, talking about, and reflecting on mathematics. Unlike many technology programs, SimCalc research shows the benefits of balanced attention to curriculum, pedagogy, teacher professional development, assessment and technology -- and has proven effectiveness results at the scale of hundreds of schools and classrooms. Combining the findings of multiple investigators in one accessible volume reveals the depth and breadth of the research program, and engages readers interested in: * Engaging students in deeply learning the important concepts in mathematics * Designing innovative curriculum, software, and professional development · Effective uses of technology to improve mathematics education * Creating integrated systems of teaching that transform mathematics classrooms * Scaling up new pedagogies to hundreds of schools and classrooms * Conducting research that really matters for the future of mathematics learning * Engaging students in deeply learning the important concepts in mathematics * Designing innovative curriculum, software, and professional development · Effective uses of technology to improve mathematics education * Creating integrated systems of teaching that transform mathematics classrooms * Scaling up new pedagogies to hundreds of schools and classrooms * Conducting research that really matters for the future of mathematics learning

The Canterbury Puzzles - Henry Ernest Dudeney 2021-06-05 The Canterbury Puzzles: And Other Curious Problems This book is a result of an effort made by us towards making a contribution to the preservation and repair of original classic literature. In an attempt to preserve, improve and recreate the original content, we have worked towards: 1. Type-setting & Reformatting: The complete work has been re-designed via professional layout, formatting and type-setting tools to re-create the same edition with rich typography, graphics, high quality images, and table elements, giving our readers the feel of holding a 'fresh and newly' reprinted and/or revised edition, as opposed to other scanned & printed (Optical Character Recognition - OCR) reproductions. 2. Correction of imperfections: As the work was re-created from the scratch, therefore, it was vetted to rectify certain conventional norms with regard to typographical mistakes, hyphenations, punctuations, blurred images, missing content/pages, and/or other related subject matters, upon our consideration. Every attempt was made to rectify the imperfections related to omitted constructs in the original edition via other references. However, a few of such imperfections which could not be rectified due to intentional\unintentional omission of content in the original edition, were inherited and preserved from the original work to maintain the authenticity and construct, relevant to the work. We believe that this work holds historical, cultural and/or intellectual importance in the literary works community, therefore despite the oddities, we accounted the work for print as a part of our continuing effort towards preservation of literary work and our contribution towards the development of the society as a whole, driven by our beliefs. We are grateful to our readers for putting their faith in us and accepting our imperfections with regard to preservation of the historical content. HAPPY READING!

Esercizi svolti di Analisi Matematica e Geometria 2 Fabio Panzo 2022-01-01 Il presente volume di esercizi svolti è rivolto a studenti universitari, di vari corsi di studio, che affrontano esami di matematica. E' suddiviso nei capitoli seguenti: 1. Numeri Reali e Funzioni; 2. Numeri Complessi; 3. Successioni e Serie; 4. Limiti di Funzioni; 5. Continuità, Derivabilità e Applicazioni; 6. Studi di Funzione; 7. Integrali; 8. Geometria Analitica nello Spazio; 9. Curve; 10. Algebra Lineare; 11. Equazioni Differenziali Ordinarie; 12. Successioni e Serie di Funzioni; 13. Funzioni di Più Variabili; 14. Massimi e Minimi; 15. Integrali Multipli; 16. Campi Vettoriali; 17. Superfici e Integrali Superficiali.

Mathematics in Ancient Iraq - Eleanor Robson 2020-06-30 This monumental book traces the origins and development of mathematics in the ancient Middle East, from its earliest beginnings in the fourth millennium BCE to the end of indigenous intellectual culture in the second century BCE when cuneiform writing was gradually abandoned. Eleanor Robson offers a history like no other, examining ancient mathematics within its broader social, political, economic, and religious contexts, and showing that mathematics was not just an abstract discipline for elites but a key component in ordering society and understanding the world. The region of modern-day Iraq is uniquely rich in evidence for ancient mathematics because its prehistoric inhabitants wrote on clay tablets, many hundreds of thousands of which have been archaeologically excavated, deciphered, and translated. Drawing from these and a wealth of other textual and archaeological evidence, Robson gives an extraordinarily detailed picture of how mathematical ideas and practices were conceived, used, and taught during this period. She challenges the prevailing view that they were merely the simplistic precursors of classical Greek mathematics, and explains how the prevailing view came to be. Robson reveals the true sophistication and beauty of ancient Middle Eastern mathematics as it evolved over three thousand years, from the earliest beginnings of recorded accounting to complex mathematical astronomy. Every chapter provides detailed information on sources, and the book includes an appendix on all mathematical cuneiform tablets published before 2007.

The Beauty of Doing Mathematics Serge Lang 2012-12-06 If someone told you that mathematics is quite beautiful, you might be surprised. But you should know that some people do mathematics all their lives, and create mathematics, just as a composer creates music. Usually, every time a mathematician solves a problem, this gives rise to many others, new and just as beautiful as the one which was solved. Of course, often these problems are quite difficult, and as in other disciplines can be understood only by those who have studied the subject with some depth, and know the subject well. In 1981, Jean Brette, who is responsible for the Mathematics Section of the Palais de la Decouverte (Science Museum) in Paris, invited me to give a conference at the Palais.

I had never given such a conference before, to a non-mathematical public. Here was a challenge: could I communicate to such a Saturday afternoon audience what it means to do mathematics, and why one does mathematics? By "mathematics" I mean pure mathematics. This doesn't mean that pure math is better than other types of math, but I and a number of others do pure mathematics, and it's about them that I am now concerned. Math has a bad reputation, stemming from the most elementary levels. The word is in fact used in many different contexts. First, I had to explain briefly these possible contexts, and the one with which I wanted to deal.

The Universal Computer - Martin Davis 2018-10-08
The breathtakingly rapid pace of change in computing makes it easy to overlook the pioneers who began it all. Written by Martin Davis, respected logician and researcher in the theory of computation, The Universal Computer: The Road from Leibniz to Turing explores the fascinating lives, ideas, and discoveries of seven remarkable mathematicians. It tells the stories of the unsung heroes of the computer age – the logicians. The story begins with Leibniz in the 17th century and then focuses on Boole, Frege, Cantor, Hilbert, and Gödel, before turning to Turing. Turing's analysis of algorithmic processes led to a single, all-purpose machine that could be programmed to carry out such processes—the computer. Davis describes how this incredible group, with lives as extraordinary as their accomplishments, grappled with logical reasoning and its mechanization. By investigating their achievements and failures, he shows how these pioneers paved the way for modern computing. Bringing the material up to date, in this revised edition Davis discusses the success of the IBM Watson on Jeopardy, reorganizes the information on incompleteness, and adds information on Konrad Zuse. A distinguished prize-winning logician, Martin Davis has had a career of more than six decades devoted to the important interface between logic and computer science. His expertise, combined with his genuine love of the subject and excellent storytelling, make him the perfect person to tell this story.

The Non-Euclidean Revolution - Richard J. Trudeau 2008-01-21
Richard Trudeau confronts the fundamental question of truth and its representation through mathematical models in The Non-Euclidean Revolution. First, the author analyzes geometry in its historical and philosophical setting; second, he examines a revolution every bit as significant as the Copernican revolution in astronomy and the Darwinian revolution in biology; third, on the most speculative level, he questions the possibility of absolute knowledge of the world. A portion of the book won the Pólya Prize, a distinguished award from the Mathematical Association of America.

What is Mathematics? - Richard Courant 1960

Curves and Surfaces - M. Abate 2012-06-11
The book provides an introduction to Differential Geometry of Curves and Surfaces. The theory of curves starts with a discussion of possible definitions of the concept of curve, proving in particular the classification of 1-dimensional manifolds. We then present the classical local theory of parametrized plane and space curves (curves in n-dimensional space are discussed in the complementary material): curvature, torsion, Frenet's formulas and the fundamental theorem of the local theory of curves. Then, after a self-contained presentation of degree theory for continuous self-maps of the circumference, we study the global theory of plane curves, introducing winding and rotation numbers, and proving the Jordan curve theorem for curves of class C2, and Hopf theorem on the rotation number of closed simple curves. The local theory of surfaces begins with a comparison of the concept of parametrized (i.e., immersed) surface with the concept of regular (i.e., embedded) surface. We then develop the basic differential geometry of surfaces in R3: definitions, examples, differentiable maps and functions, tangent vectors (presented both as vectors tangent to curves in the surface and as derivations on germs of differentiable functions; we shall consistently use both approaches in the whole book) and orientation. Next we study the several notions of curvature on a surface, stressing both the geometrical meaning of the objects introduced and the algebraic/analytical methods needed to study them via the Gauss map, up to the proof of Gauss' Teorema Egregium. Then we introduce vector fields on a surface (flow, first integrals, integral curves) and geodesics (definition, basic properties, geodesic curvature, and, in the complementary material, a full proof of minimizing properties of geodesics and of the Hopf-Rinow theorem for surfaces). Then we shall present a proof of the celebrated Gauss-Bonnet theorem, both in its local and in its global form, using basic properties (fully proved in the complementary material) of

triangulations of surfaces. As an application, we shall prove the Poincaré-Hopf theorem on zeroes of vector fields. Finally, the last chapter will be devoted to several important results on the global theory of surfaces, like for instance the characterization of surfaces with constant Gaussian curvature, and the orientability of compact surfaces in R3.

The Journal of the Indian Mathematical Society - 1909
Vols. for 1923-32 include separately paged sections: "Notes and questions" and "Progress report."

Uncle Petros and Goldbach's Conjecture - Apostolos Doxiadis 2012-11-15
Uncle Petros is a family joke. An ageing recluse, he lives alone in a suburb of Athens, playing chess and tending to his garden. If you didn't know better, you'd surely think he was one of life's failures. But his young nephew suspects otherwise. For Uncle Petros, he discovers, was once a celebrated mathematician, brilliant and foolhardy enough to stake everything on solving a problem that had defied all attempts at proof for nearly three centuries - Goldbach's Conjecture. His quest brings him into contact with some of the century's greatest mathematicians, including the Indian prodigy Ramanujan and the young Alan Turing. But his struggle is lonely and single-minded, and by the end it has apparently destroyed his life. Until that is a final encounter with his nephew opens up to Petros, once more, the deep mysterious beauty of mathematics. Uncle Petros and Goldbach's Conjecture is an inspiring novel of intellectual adventure, proud genius, the exhilaration of pure mathematics - and the rivalry and antagonism which torment those who pursue impossible goals.

PISA The PISA 2003 Assessment Framework Mathematics, Reading, Science and Problem Solving Knowledge and Skills OECD 2004-03-02
The PISA 2003 Assessment Framework presents the conceptual underpinning of the PISA 2003 assessments. Within each assessment area, the volume defines the content that students need to acquire, the processes that need to be performed and the contexts in which knowledge and skills are applied.

Perspectives on the Teaching of Geometry for the 21st Century Carmelo Mammana 1998-03-31
In recent years geometry seems to have lost large parts of its former central position in mathematics teaching in most countries. However, new trends have begun to counteract this tendency. There is an increasing awareness that geometry plays a key role in mathematics and learning mathematics. Although geometry has been eclipsed in the mathematics curriculum, research in geometry has blossomed as new ideas have arisen from inside mathematics and other disciplines, including computer science. Due to reassessment of the role of geometry, mathematics educators and mathematicians face new challenges. In the present ICMI study, the whole spectrum of teaching and learning of geometry is analysed. Experts from all over the world took part in this study, which was conducted on the basis of recent international research, case studies, and reports on actual school practice. This book will be of particular interest to mathematics educators and mathematicians who are involved in the teaching of geometry at all educational levels, as well as to researchers in mathematics education.

Reconceiving Mathematics Instruction Raffaella Borasi 1996
As dissatisfaction with the current status of school mathematics grows worldwide, educators and professionals alike are calling for reforms and instructional changes. Yet, significant changes can only be achieved if each educator of school mathematics personally rethinks various aspects of mathematics instruction, and identifies concrete ways in which their current practice could be modified. Before such visions can be meaningfully implemented in classrooms, it is important that mathematics teachers and educators examine critically both the assumptions and implications of the vision for school mathematics that the reports propose. This book is intended to support educators in such a challenging enterprise by focusing attention on errors and their use in mathematics instruction. Throughout the book, an approach to errors as opportunities for learning and inquiry will be developed and employed both as a means to create the kinds of instructional experiences advocated for school mathematics reform, and as a heuristic to invite reflections about school mathematics as well as mathematics as a discipline. REVIEWS: ...Raffaella Borasi's newest book offers important contributions to the current debate on school mathematics reform. - Journal for Research in Mathematics Education There are some great bits of philosophy in this book... - Mathematics Teaching

Lifelong Kindergarten - Mitchel Resnick 2018-08-28
How lessons from kindergarten can help everyone develop the creative thinking skills needed to thrive in today's society. In kindergartens these

days, children spend more time with math worksheets and phonics flashcards than building blocks and finger paint. Kindergarten is becoming more like the rest of school. In Lifelong Kindergarten, learning expert Mitchel Resnick argues for exactly the opposite: the rest of school (even the rest of life) should be more like kindergarten. To thrive in today's fast-changing world, people of all ages must learn to think and act creatively—and the best way to do that is by focusing more on imagining, creating, playing, sharing, and reflecting, just as children do in traditional kindergartens. Drawing on experiences from more than thirty years at MIT's Media Lab, Resnick discusses new technologies and strategies for engaging young people in creative learning experiences. He tells stories of how children are programming their own games, stories, and inventions (for example, a diary security system, created by a twelve-year-old girl), and collaborating through remixing, crowdsourcing, and large-scale group projects (such as a Halloween-themed game called Night at Dreary Castle, produced by more than twenty kids scattered around the world). By providing young people with opportunities to work on projects, based on their passions, in collaboration with peers, in a playful spirit, we can help them prepare for a world where creative thinking is more important than ever before.

Mathematical Analysis - I Claudio Canuto 2015-04-08
The purpose of the volume is to provide a support for a first course in Mathematics. The contents are organised to appeal especially to Engineering, Physics and Computer Science students, all areas in which mathematical tools play a crucial role. Basic notions and methods of differential and integral calculus for functions of one real variable are presented in a manner that elicits critical reading and prompts a hands-on approach to concrete applications. The layout has a specifically-designed modular nature, allowing the instructor to make flexible didactical choices when planning an introductory lecture course. The book may in fact be employed at three levels of depth. At the elementary level the student is supposed to grasp the very essential ideas and familiarise with the corresponding key techniques. Proofs to the main results befit the intermediate level, together with several remarks and complementary notes enhancing the treatise. The last, and farthest-reaching, level requires the additional study of the material contained in the appendices, which enable the strongly motivated reader to explore further into the subject. Definitions and properties are furnished with substantial examples to stimulate the learning process. Over 350 solved exercises complete the text, at least half of which guide the reader to the solution. This new edition features additional material with the aim of matching the widest range of educational choices for a first course of Mathematics.

Dyslexia - Miles, T.R 1999-06-01
This new edition is a complete re-write of the original book and reports on new areas of research and raises questions about the different forms which dyslexia can take in different languages. The book also looks afresh at assessment, teaching approaches, and counselling.

Uncle Tungsten - Oliver Sacks 2013-12-11
Long before Oliver Sacks became a distinguished neurologist and bestselling writer, he was a small English boy fascinated by metals–also by chemical reactions (the louder and smellier the better), photography, squids and cuttlefish, H.G. Wells, and the periodic table. In this endlessly charming and eloquent memoir, the author of The Man Who Mistook His Wife for a Hat and Awakenings chronicles his love affair with science and the magnificently odd and sometimes harrowing childhood in which that love affair unfolded. In Uncle Tungsten we meet Sacks' extraordinary family, from his surgeon mother (who introduces the fourteen-year-old Oliver to the art of human dissection) and his father, a family doctor who imbues in his son an early enthusiasm for housecalls, to his "Uncle Tungsten," whose factory produces tungsten-filament lightbulbs. We follow the young Oliver as he is exiled at the age of six to a grim, sadistic boarding school to escape the London Blitz, and later watch as he sets about passionately reliving the exploits of his chemical heroes–in his own home laboratory. Uncle Tungsten is a crystalline view of a brilliant young mind springing to life, a story of growing up which is by turns elegiac, comic, and wistful, full of the electrifying joy of discovery.

Acquisition of Mathematics Concepts and Processes - Richard A. Lesh 1983

Understanding the Mathematical Way of Thinking – The Registers of Semiotic Representations Raymond Duval 2017-07-18
In this book, Raymond Duval shows how his theory of registers of semiotic representation can be used as a tool to analyze the cognitive processes through which students develop mathematical thinking. To

Duval, the analysis of mathematical knowledge is in its essence the analysis of the cognitive synergy between different kinds of semiotic representation registers, because the mathematical way of thinking and working is based on transformations of semiotic representations into others. Based on this assumption, he proposes the use of semiotics to identify and develop the specific cognitive processes required to the acquisition of mathematical knowledge. In this volume he presents a method to do so, addressing the following questions: • How to situate the registers of representation regarding the other semiotic "theories" • Why use a semio-cognitive analysis of the mathematical activity to teach mathematics • How to distinguish the different types of registers • How to organize learning tasks and activities which take into account the registers of representation • How to make an analysis of the students' production in terms of registers Building upon the contributions he first presented in his classic book Sémiosis et pensée humaine, in this volume Duval focuses less on theoretical issues and more on how his theory can be used both as a tool for analysis and a working method to help mathematics teachers apply semiotics to their everyday work. He also dedicates a complete chapter to show how his theory can be applied as a new strategy to teach geometry. "Understanding the Mathematical Way of Thinking – The Registers of Semiotic Representations is an essential work for mathematics educators and mathematics teachers who look for an introduction to Raymond Duval's cognitive theory of semiotic registers of representation, making it possible for them to see and teach mathematics with fresh eyes." Professor Tânia M. M. Campos, PHD.

Esercizi svolti di Analisi Matematica e Geometria 2 - Giovanni Catino 2021-12-01
Il presente volume di esercizi svolti è rivolto a studenti universitari, di vari corsi di studio, che affrontano esami di matematica. E' suddiviso nei capitoli seguenti: 1. Serie Numeriche ed Integrali Impropri; 2. Successioni e Serie di Funzioni; 3. Algebra Lineare; 4. Equazioni Differenziali Ordinarie; 5. Geometria Analitica nello Spazio; 6. Curve; 7. Funzioni di Più Variabili; 8. Massimi e Minimi; 9. Integrali Multipli; 10. Campi Vettoriali; 11. Superfici e Integrali Superficiali.

Return to Reason Stephen Edelston Toulmin 2009-06-30
Stephen Toulmin argues that the potential for reason to improve our lives has been hampered by a serious imbalance in our pursuit of knowledge. The centuries-old dominance of rationality has diminished the value of reasonableness. Toulmin issues a powerful call to redress the balance between rationality and reasonableness.

Primary Teachers Talking - Professor Jennifer Nias 2002-06-01
First published in 2002. Routledge is an imprint of Taylor & Francis, an informa company.

The Poetry of Mathematics and Other Essays - David Eugene Smith 1947

Algebraic Curves - William Fulton 1989

Matematica - Manuale di teoria Ulrico Hoepli 2014-03-13T00:00:00+01:00
Il Manuale di teoria - Matematica tratta tutti i principali argomenti di matematica previsti ai test di ammissione all'Università dei corsi di laurea dell'area economica, scientifica e medico-sanitaria. Grazie alla trattazione chiara e semplice di tutti i capitoli, è lo strumento più adatto per prepararsi adeguatamente alle prove d'esame ufficiali e studiare in maniera mirata ed efficace la matematica. Con l'ebook Esercizi commentati - Matematica è possibile completare la preparazione esercitandosi con numerosi quiz a risposta multipla, risolti e commentati, collegati ai capitoli del Manuale di teoria.

The Small Pleasures of Life - Philippe Delerm 2018-04-05
An enchanting celebration of life's small pleasures, this little book captures the French imagination and art of living a good life. Each chapter features a small pleasure that is both uniquely Gallic and universal. From the smell of apples maturing in a cellar to the gentle whir of a bicycle dynamo at dusk to turning the pages of a newspaper over breakfast, to the joy of a snowstorm inside a paperweight . . . Recounted with a lively, innocent curiosity about the little things that make life worthwhile, this is an unforgettable, absorbing read to be savoured at length by everyone looking to create more peace and joy in their lives.

Fractals Everywhere - Michael F. Barnsley 2014-05-10
Fractals Everywhere, Second Edition covers the fundamental approach to fractal geometry through iterated function systems. This 10-chapter text is based on a course called "Fractal Geometry", which has been taught in the School of Mathematics at the Georgia Institute of Technology. After a brief introduction to the subject, this book goes on

dealing with the concepts and principles of spaces, contraction mappings, fractal construction, and the chaotic dynamics on fractals. Other chapters discuss fractal dimension and interpolation, the Julia sets, parameter spaces, and the Mandelbrot sets. The remaining chapters examine the measures on fractals and the practical application of recurrent iterated function systems. This book will prove useful to both undergraduate and graduate students from many disciplines, including mathematics, biology, chemistry, physics, psychology, mechanical, electrical, and aerospace engineering, computer science, and geophysical science.

The Magic of Numbers - Eric Temple Bell 2014-06-10
Superb, stimulating account of origins of mathematical thought and development of numerical theory. Probes the work of Pythagoras, Galileo, Berkeley, Einstein, and others, exploring influence of "number magic" on religion, philosophy, science, mathematics.
Boiardo - Leigh Hunt 1846

The Ancestors of Sarah Jane French - Anonymous 2021-09-10
This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.
N - Z - Thomas A. Sebeok 2020-05-18

When the Guns Fall Silent James Riordan 2001
Jack Loveless attempts to avert his grandson's questions about his role in World War I by taking him to visit the battlefield graveyards in France. While there he meets a German soldier from the past and vividly remembers the Christmas truce, a miraculous moment when the guns fell silent and horrors of war were temporarily forgotten in a football match. Suggested level: secondary.
Résumé des leçons données à l'École royale polytechnique sur le calcul infinitésimal - Augustin Louis Baron Cauchy 1823

The Mathematical Analysis of Logic - George Boole 1847

Undergraduate Algebraic Geometry Miles Reid 1988-12-15
Algebraic geometry is, essentially, the study of the solution of equations and occupies a central position in pure mathematics. This short and readable introduction to algebraic geometry will be ideal for all undergraduate mathematicians coming to the subject for the first time. With the minimum of prerequisites, Dr Reid introduces the reader to the basic concepts of algebraic geometry including: plane conics, cubics and the group law, affine and projective varieties, and non-singularity and dimension. He is at pains to stress the connections the subject has with commutative algebra as well as its relation to topology, differential geometry, and number theory. The book arises from an undergraduate course given at the University of Warwick and contains numerous examples and exercises illustrating the theory.
Groups - Antonio Machì 2012-04-05
Groups are a means of classification, via the group action on a set, but also the object of a classification. How many groups of a given type are there, and how can they be described? Hölder's program for attacking this problem in the case of finite groups is a sort of leitmotiv throughout the text. Infinite groups are also considered, with particular attention to logical and decision problems. Abelian, nilpotent and solvable groups are studied both in the finite and infinite case. Permutation groups and are treated in detail; their relationship with Galois theory is often taken into account. The last two chapters deal with the representation theory of finite group and the cohomology theory of groups; the latter with special emphasis on the extension problem. The sections are followed by exercises; hints to the solution are given, and for most of them a complete solution is provided.

Life Upper-Intermediate Student's Book with App Code - Paul Dummett 2017-10-15
Now in a new edition, National Geographic Learning brings the world to your classroom with Life, a six-level integrated-skills series with grammar and vocabulary for young adult and adult English language learners. Through stunning National Geographic content, video, and engaging topics, Life inspires a generation of informed decision-makers. With Life, learners develop their ability to think critically and communicate effectively in the global community.

The Salt Road - Jane Johnson 2011-11-01
From the author of The Tenth Gift comes another story of exotic, foreign lands, entwining storylines spanning generations, and the quests to overcome love lost. The desert lay before them, and the secrets of the amulet . . . From Tafraout's magnificent mountainside, Isobel absorbs the heat and romance of the Moroccan vista before her, with mosque and homes scattered far below. But a mere slip sees her tumbling uncontrollably into the arms of handsome rescuer Taïb, who notices her unusual silver amulet, and that her fall has revealed a tiny scroll hidden within. Entranced by the possibilities of its intricate and illegible script, they set out for the Sahara in search of a Tuareg elder to unlock the riddles of its past. Little does Izzy realize that the desert holds the key to more mysteries than the amulet's. From beneath the beating sun emerges nomadic Princess Mariata, whose stories of tortured love bind her to the precious talisman in Izzy's hands. She's battled the sands; she's found and lost love among its dunes. And where the amulet crosses both their paths, answers to the deepest secrets lie.

Challenging Mathematics In and Beyond the Classroom - Edward J. Barbeau 2009-04-21
In the mid 1980s, the International Commission on Mathematical Instruction (ICMI) inaugurated a series of studies in mathematics education by comm- sioning one on the influence of technology and informatics on mathematics and its teaching. These studies are designed to thoroughly explore topics of c- temporary interest, by gathering together a group of experts who prepare a Study Volume that provides a considered assessment of the current state and a guide to further developments. Studies have embraced a range of issues, some central, such as the teaching of algebra, some closely related, such as the impact of history and psychology, and some looking at mathematics education from a particular perspective, such as cultural differences between East and West. These studies have been commissioned at the rate of about one per year. Once the ICMI Executive decides on the topic, one or two chairs are selected and then, in consultation with them, an International Program Committee (IPC) of about 12 experts is formed. The IPC then meets and prepares a Discussion Document that sets forth the issues and invites interested parties to submit papers. These papers are the basis for invitations to a Study Conference, at which the various dimensions of the topic are explored and a book, the Study Volume, is sketched out. The book is then put together in collaboration, mainly using electronic communication. The entire process typically takes about six years.