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Handbook Of Cubik Math

This book constitutes the
thoroughly refereed proceedings
of the 7th International
Conference on Mathematics and

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Computation in Music, MCM 2019, held in Madrid, Spain, in June 2019. The 22 full papers and 10 short papers presented were carefully reviewed and selected from 48 submissions. The papers feature research that

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combines mathematics or computation with music theory, music analysis, composition, and performance. They are organized in topical sections on algebraic and other abstract mathematical approaches to

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understanding musical objects;
remanaging Riemann:
mathematical music theory as
"experimental philosophy"?;
octave division; computer-based
approaches to composition and
score structuring; models for

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music cognition and beat tracking; pedagogy of mathematical music theory. The chapter "Distant Neighbors and Interscalar Contiguities" is available open access under a Creative Commons Attribution

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The global digital economy continues to demand the need for educated and highly trained professionals, requiring higher learning institutions to provide

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accessible technology-driven experience to prepare future leaders effectively. However, there are challenges involved in creating a robust curriculum and recruiting top-notch faculty all over the world while also

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meeting the academic criteria to offer effective academic programs and degrees to students. The Handbook of Research on Challenges and Opportunities in Launching a Technology-Driven International

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University is a pivotal reference source that provides empirical and theoretical research focused on the effective construction of technology-driven higher learning international universities. While highlighting

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topics such as accelerated and innovative curriculum, recruitment of international faculty, on-campus development, and distance learning systems, this publication explores the financial and economic impacts

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of launching a university, and the methods of how to identify the appropriate locale for universities and/or branch campuses that will ideally complement the local interest of business sectors within the

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selected location. This book is ideally designed for entrepreneurs, practitioners, academicians, administrators, government officials, researchers, and consultants. This is a textbook for a one-term

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course whose goal is to ease the transition from lower-division calculus courses to upper-division courses in linear and abstract algebra, real and complex analysis, number theory, topology, combinatorics,

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and so on. Without such a "bridge" course, most upper division instructors feel the need to start their courses with the rudiments of logic, set theory, equivalence relations, and other basic mathematical raw materials

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before getting on with the subject at hand. Students who are new to higher mathematics are often startled to discover that mathematics is a subject of ideas, and not just formulaic rituals, and that they are now

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expected to understand and create mathematical proofs. Mastery of an assortment of technical tricks may have carried the students through calculus, but it is no longer a guarantee of academic success. Students

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need experience in working with abstract ideas at a nontrivial level if they are to achieve the sophisticated blend of knowledge, discipline, and creativity that we call "mathematical maturity. " I don't

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believe that "theorem-proving" can be taught any more than "question-answering" can be taught. Nevertheless, I have found that it is possible to guide students gently into the process of mathematical proof in such a

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way that they become comfortable with the experience and begin asking themselves questions that will lead them in the right direction.

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With Emphasis on Rotation and Motion Groups

Encyclopedia of Play in Today's Society

Handbook of Cubic Math

The American Mathematical Monthly

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EvoApplications 2010:
EvoCOMPLEX, EvoGAMES,
EvoIASP, EvoINTELLIGENCE,
EvoNUM, and EvoSTOC,
Istanbul, Turkey, April 7-9, 2010,
Proceedings
Handbook of Research on

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Challenges and Opportunities in
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learning (RL) tools and techniques. It provides you with an introduction to the fundamentals of RL, along with the hands-on ability to code intelligent learning agents to perform a range of practical

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tasks. With six new chapters devoted to a variety of up-to-the-minute developments in RL, including discrete optimization (solving the Rubik's Cube), multi-agent methods, Microsoft's TextWorld environment,

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advanced exploration techniques, and more, you will come away from this book with a deep understanding of the latest innovations in this emerging field. In addition, you will gain actionable insights into such

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topic areas as deep Q-networks, policy gradient methods, continuous control problems, and highly scalable, non-gradient methods. You will also discover how to build a real hardware robot trained with RL for less

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than \$100 and solve the Pong environment in just 30 minutes of training using step-by-step code optimization. In short, Deep Reinforcement Learning Hands-On, Second Edition, is your companion to navigating the

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exciting complexities of RL as it helps you attain experience and knowledge through real-world examples. What you will learn Understand the deep learning context of RL and implement complex deep learning models

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Evaluate RL methods including cross-entropy, DQN, actor-critic, TRPO, PPO, DDPG, D4PG, and others Build a practical hardware robot trained with RL methods for less than \$100 Discover Microsoft's TextWorld

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environment, which is an interactive fiction games platform Use discrete optimization in RL to solve a Rubik's Cube Teach your agent to play Connect 4 using AlphaGo Zero Explore the very latest deep

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RL research on topics including AI chatbots Discover advanced exploration techniques, including noisy networks and network distillation techniques Who this book is for Some fluency in Python is assumed.

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***Sound understanding of the fundamentals of deep learning will be helpful. This book is an introduction to deep RL and requires no background in RL
An Anthropology of Puzzles argues that the human brain is a***

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"puzzling organ" which allows humans to literally solve their own problems of existence through puzzle format. Noting the presence of puzzles everywhere in everyday life, Marcel Danesi looks at puzzles in

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society since the dawn of history, showing how their presence has guided large sections of human history, from discoveries in mathematics to disquisitions in philosophy. Danesi examines the cognitive

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processes that are involved in puzzle making and solving, and connects them to the actual physical manifestations of classic puzzles. Building on a concept of puzzles as based on Jungian archetypes, such as the

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river crossing image, the path metaphor, and the journey, Danesi suggests this could be one way to understand the public fascination with puzzles. As well as drawing on underlying mental archetypes, the act of solving

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puzzles also provides an outlet to move beyond biological evolution, and Danesi shows that puzzles could be the product of the same basic neural mechanism that produces language and culture. Finally,

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Danesi explores how understanding puzzles can be a new way of understanding our human culture.

Featuring strategies for solving the puzzles and computations illustrated using the SAGE open-

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***source computer algebra system, the second edition of Adventures in Group Theory is perfect for mathematics enthusiasts and for use as a supplementary textbook.
Handbook of Cubik Math*** **ISD LLC**

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Applications of Evolutionary Computation

Adventures In Recreational Mathematics (In 2 Volumes)

Politics and Society

Harmonic Analysis for Engineers and Applied Scientists

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***Game & Puzzle Design, vol. 2,
no. 2, 2016 (B&W)***

***Third International Conference,
FABULOUS 2017, Bucharest,
Romania, October 12-14, 2017,
Proceedings***

This book is ideally suited for a

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two-term undergraduate algebra course culminating in a discussion on Galois theory. It provides an introduction to group theory and ring theory en route. In addition, there is a chapter on groups — including applications to

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error-correcting codes and to solving Rubik's cube. The concise style of the book will facilitate student-instructor discussion, as will the selection of exercises with various levels of difficulty. For the second

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edition, two chapters on modules over principal ideal domains and Dedekind domains have been added, which are suitable for an advanced undergraduate reading course or a first-year graduate course.

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New Scientist magazine was launched in 1956 "for all those men and women who are interested in scientific discovery, and in its industrial, commercial and social consequences". The brand's mission is no different

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today - for its consumers, New Scientist reports, explores and interprets the results of human endeavour set in the context of society and culture.

Publisher Fact Sheet Recalling Stephen Pinker's The Language

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Instinct, the author argues that humans are born with an "instinct for puzzles" that betrays a larger search for the meaning of life. This "instinct" has led to discoveries in mathematics and science, as well as revolutions in

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philosophical thought.

What do Bach's compositions, Rubik's Cube, the way we choose our mates, and the physics of subatomic particles have in common? All are governed by the laws of

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symmetry, which elegantly unify scientific and artistic principles. Yet the mathematical language of symmetry-known as group theory-did not emerge from the study of symmetry at all, but from an equation that couldn't be

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solved. For thousands of years mathematicians solved progressively more difficult algebraic equations, until they encountered the quintic equation, which resisted solution for three centuries. Working

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independently, two great prodigies ultimately proved that the quintic cannot be solved by a simple formula. These geniuses, a Norwegian named Niels Henrik Abel and a romantic Frenchman named Évariste Galois, both died

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tragically young. Their incredible labor, however, produced the origins of group theory. The first extensive, popular account of the mathematics of symmetry and order, *The Equation That Couldn't Be Solved* is told not

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through abstract formulas but in a beautifully written and dramatic account of the lives and work of some of the greatest and most intriguing mathematicians in history.

New Scientist

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From Strange Simplicity to
Complex Familiarity
Second Edition
Critical Concepts
Mathematics Magazine
The Meaning of Puzzles in
Human Life

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This book presents a vivid argument for the almost lost idea of a unity of all natural sciences. It starts with the "strange" physics of matter, including particle

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physics, atomic physics and quantum mechanics, cosmology, relativity and their consequences (Chapter I), and it continues by describing the properties of material

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systems that are best understood by statistical and phase-space concepts (Chapter II). These lead to entropy and to the classical picture of quantitative information,

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initially devoid of value and meaning (Chapter III). Finally, "information space" and dynamics within it are introduced as a basis for semantics (Chapter IV), leading to

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an exploration of life and thought as new problems in physics (Chapter V).

Dynamic equations - again of a strange (but very general) nature - bring about the complex

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familiarity of the world we live in. Surprising new results in the life sciences open our eyes to the richness of physical thought, and they show us what can and what cannot

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be explained by a Darwinian approach. The abstract physical approach is applicable to the origins of life, of meaningful information and even of our universe.

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First published in 2001. The classical Fourier transform is one of the most widely used mathematical tools in engineering. However, few engineers know that

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extensions of harmonic analysis to functions on groups holds great potential for solving problems in robotics, image analysis, mechanics, and other areas. For those

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that may be aware of its potential value, there is still no place they can turn to for a clear presentation of the background they need to apply the concept to

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engineering problems.
Engineering Applications
of Noncommutative Harmonic
Analysis brings this
powerful tool to the
engineering world. Written
specifically for engineers

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and computer scientists, it offers a practical treatment of harmonic analysis in the context of particular Lie groups (rotation and Euclidean motion). It presents only

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a limited number of proofs, focusing instead on providing a review of the fundamental mathematical results unknown to most engineers and detailed discussions

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of specific applications. Advances in pure mathematics can lead to very tangible advances in engineering, but only if they are available and accessible to engineers.

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Engineering Applications of Noncommutative Harmonic Analysis provides the means for adding this valuable and effective technique to the engineer's toolbox.

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This book looks at classic puzzles from the perspective of their structures and what they tell us about the brain. It uses the work on the neuroscience of

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mathematics from Dehaene, Butterworth, Lakoff, Núñez, and many others as a lens to understand the ways in which puzzles reflect imaginative processes blended with

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rational ones. The book is not about recreational or puzzle-based mathematics in and of itself but rather about what the classic puzzles tell us about the mathematical

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imagination and its impact on the discipline. It delves into the history of classic math puzzles, deconstructing their raison d'être and describing their

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psychological features, so that their nature can be fleshed out in order to help understand the mathematical mind. This volume is the first monographic treatment of

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the psychological nature of puzzles in mathematics. With its user-friendly technical level of discussion, it is of interest to both general readers and those who

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engage in the disciplines of mathematics, psychology, neuroscience, and/or anthropology. It is also ideal as a textbook source for courses in recreational mathematics,

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or as reference material in introductory college math courses.

On January 30, 1975 Ernd Rubik j r., professor of architecture and design in Budapest, was granted the

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Hungarian patent number 170062 for a "terbeli logikai jatek"--A game of spatial logic. Between 1978 and March 1981 this object-Bt1vos Kocka in Hungary, der Magische

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Wiirfel or Zauberwiirfel in Germany, Ie Cube Hongrois in France and the Magic Cube or Rubik' s Cube in Great Britain and the USA-has sold more than ten million copies. And

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they were not merely sold!
A highly contagious "twist mania" has been spreading throughout families, offices and waiting rooms. Many classrooms sound as if an army of mice were

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hard at work behind the desks. What is so fascinating about this cube, which competes with Hungarian salami and the famous Tokajer wine in the currency-winning export

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market? For one thing, it is an amazing technical tool. How does it work? Moreover, the contrast between its innocent, innocuous appearance and the hidden difficulty of

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its solution offers a serious challenge to all puzzle fans, but especially to those mathematicians who are professionally concerned with logical deduction

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Parallel Problem Solving
from Nature, PPSN XI
Book Review Index
Ahmes' Legacy
Apply modern RL methods to
practical problems of
chatbots, robotics,

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discrete optimization, web automation, and more
Contemporary Abstract Algebra
Groups, Rings and Galois Theory

We are very pleased to present to

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you this LNCS volume, the proceedings of the 11th International Conference on Parallel Problem Solving from Nature (PPSN 2010). PPSN is one of the most respected and highly regarded conference series in evolutionary computation, and indeed in natural

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computation as well. This biennial event was first held in Dortmund in 1990, and then in Brussels (1992), Jerusalem (1994), Berlin (1996), Amsterdam (1998), Paris (2000), Granada (2002), Birmingham (2004), Reykjavik (2006) and again in Dortmund in 2008. PPSN 2010 received 232

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submissions. After an extensive peer review process involving more than 180 reviewers, the program committee chairs went through all the review reports and ranked the papers according to the reviewers' comments. Each paper was evaluated by at least three

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reviewers. Additional reviewers from the appropriate branches of science were invoked to review into disciplinary papers. The top 128 papers were ?nally selected for inclusion in the proceedings and presentation at the conference. This represents an acceptance rate of

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55%, which guarantees that PPSN will continue to be one of the conferences of choice for bio-inspired computing and metaheuristics researchers all over the world who value the quality over the size of a conference. The papers included in the proceedings volumes cover a

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wide range of topics, from evolutionary computation to swarm intelligence, from bio-inspired computing to real-world applications. Machine learning and mathematical games supported by evolutionary algorithms as well as memetic, agent-oriented systems are also

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represented. They all are the latest and best in natural computation.

The proceedings are composed of two volumes divided into nine thematic sections.

This book constitutes the refereed post-conference proceedings of the Third International Conference on

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Future Access Enablers for Ubiquitous and Intelligent Infrastructures, FABULOUS 2017, held in Bucharest, Romania, in October 2017. The 37 revised full papers were carefully reviewed and selected from 61 submissions. The main topics deal with future access

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networks, Internet of Things and smart city/smart environment applications, communications and computing infrastructures, security aspects in communication and data processing, signal processing and multimedia.

The Force of Symmetry gives an

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elementary introduction to the spectacular interplay between the three great themes of contemporary physics: quantum behaviour; relativity; and symmetry. In clear, non-technical language, though without oversimplification, it explores many fascinating aspects

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of modern physics, discussing the nature and interaction of force and matter. All these themes are drawn together, towards the end of the book, to describe the most successful physics theory in history, the 'standard model' of subatomic particles. The lively and

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non-technical approach of this book will make it suitable for first-year undergraduates in the physical sciences and mathematics, or even to those just about to embark on such courses. It will also be a valuable accompaniment to more advanced texts on quantum

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mechanics and particle physics. Although the Fourier transform is among engineering's most widely used mathematical tools, few engineers realize that the extension of harmonic analysis to functions on groups holds great potential for solving problems in robotics, image

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analysis, mechanics, and other areas. This self-contained approach, geared toward readers with a standard background in engineering mathematics, explores the widest possible range of applications to fields such as robotics, mechanics, tomography,

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sensor calibration, estimation and control, liquid crystal analysis, and conformational statistics of macromolecules. Harmonic analysis is explored in terms of particular Lie groups, and the text deals with only a limited number of proofs, focusing instead on specific

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applications and fundamental mathematical results. Forming a bridge between pure mathematics and the challenges of modern engineering, this updated and expanded volume offers a concrete, accessible treatment that places the general theory in the context of

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specific groups.

2-manifold

Handbook of Cubik Math

Engineering Applications of

Noncommutative Harmonic

Analysis

Artificial Intelligence

The Puzzle Instinct

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Introduction · to Mathematical Structures and · Proofs

With the advent of computers that can handle symbolic manipulations, abstract algebra can now be applied. In this book David Joyner, Richard

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Kreminski, and Joann Turisco introduce a wide range of abstract algebra with relevant and interesting applications, from error-correcting codes to cryptography to the group theory of Rubik's cube. They cover

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basic topics such as the Euclidean algorithm, encryption, and permutations. Hamming codes and Reed-Solomon codes used on today's CDs are also discussed. The authors present examples as diverse as

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"Rotation," available on the Nokia 7160 cell phone, bell ringing, and the game of NIM. In place of the standard treatment of group theory, which emphasizes the classification of groups, the authors highlight

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examples and computations. Cyclic groups, the general linear group $GL(n)$, and the symmetric groups are emphasized. With its clear writing style and wealth of examples, Applied Abstract Algebra will be welcomed by

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mathematicians, computer scientists, and students alike. Each chapter includes exercises in GAP (a free computer algebra system) and MAGMA (a noncommercial computer algebra system), which are

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especially helpful in giving students a grasp of practical examples.

Thousand of persons now are able to solve Rubik's Cube, but the solution manuals they have been using do not give them a

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comprehension of what they have been doing. This book supplies such a comprehension. The handbook proceeds from topics easily understandable to the layman, to topics suitable for a junior-high-school or high-

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school course in math, and on to subjects appropriate for a college course in modern algebra.

Chapter Tree is a solution manual for those who do not yet know how to solve the cube. This solution is an intuitive one that

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does not require memorisation of the formulas. It may be among the fastest solutions published, since the authors retain an open 'working space' to avoid having only a restricted area for the last pieces to move in. Movements of

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the cube exemplify a fascinating but abstract field of mathematics known as group theory.

Manipulation of the cube makes the hard-to-understand ideas of this field concrete and understandable in the manner of

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no other device yet invented. During the past 40 years, mathematical music theory has grown and developed in both the fields of music and mathematics. In music pedagogy, the need to analyze patterns of modern

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composition has produced Musical Set Theory, and the use of Group Theory and other modern mathematical structures have become almost as common as the application of mathematics in the fields of

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engineering or chemistry. Mathematicians have been developing stimulating ideas when exploring mathematical applications to established musical relations. Mathematics students have seen in Music in

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Mathematics courses, how their accumulated knowledge of abstract ideas can be applied to an important human activity while reinforcing their dexterity in Mathematics. Similarly, new general education courses in

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Music and Mathematics are being developed and are arising at the university level, as well as for high school and general audiences without requiring a sophisticated background in either music nor mathematics.

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Mathematical Music Theorists have also been developing exciting, creative courses for high school teachers and students of mathematics. These courses and projects have been implemented in the USA, in

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China, Ireland, France, Australia, and Spain. The objective of this volume is to share the motivation and content of some of these exciting, new Mathematical Theory and Music in Mathematics courses while

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contributing concrete materials to interested readers.

CHOICE Outstanding Academic Title for 2009 "This groundbreaking resource is strongly recommended for all libraries and health and welfare

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institutional depots; essential for university collections, especially those catering to social studies programs." –Library Journal, STARRED Review Children and adults spend a great deal of time in activities we think of as "play,"

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including games, sports, and hobbies. Without thinking about it very deeply, almost everyone would agree that such activities are fun, relaxing, and entertaining. However, play has many purposes that run much

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deeper than simple entertainment. For children, play has various functions such as competition, following rules, accepting defeat, choosing leaders, exercising leadership, practicing adult roles, and taking

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risks in order to reap rewards. For adults, many games and sports serve as harmless releases of feelings of aggression, competition, and intergroup hostility. The Encyclopedia of Play in Today's

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Society explores the concept of play in history and modern society in the United States and internationally. Its scope encompasses leisure and recreational activities of children and adults throughout the ages,

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from dice games in the Roman Empire to video games today. With more than 450 entries, these two volumes do not include coverage of professional sports and sport teams but, instead, cover the hundreds of

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games played not to earn a living but as informal activity. All aspects of play—from learning to competition, mastery of nature, socialization, and cooperation—are included. Simply enough, this

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Encyclopedia explores play played for the fun of it! Key Features Available in both print and electronic formats Provides access to the fascinating literature that has explored questions of psychology,

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learning theory, game theory, and history in depth Considers the affects of play on child and adult development, particularly on health, creativity, and imagination Contains entries that describe both adult and

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childhood play and games in dozens of cultures around the world and throughout history
Explores the sophisticated analyses of social thinkers such as Huizinga, Vygotsky, and Sutton-Smith, as well as the wide

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variety of games, toys, sports, and entertainments found around the world Presents cultures as diverse as the ancient Middle East, modern Russia, and China and in nations as far flung as India, Argentina, and France Key

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Themes Adult Games Board and
Card Games Children's Games
History of Play Outdoor Games
and Amateur Sports Play and
Education Play Around the World
Psychology of Play Sociology of
Play Toys and Business Video

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and Online Games For a subject we mostly consider light-hearted, play as a research topic has generated an extensive and sophisticated literature, exploring a range of penetrating questions. This two-volume set serves as a

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general, nontechnical resource for academics, researchers, and students alike. It is an essential addition to any academic library.

11th International Conference,
Krakov, Poland, September
11-15, 2010, Proceedings, Part II

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Reviews

Rubik's Cube, Merlin's Machine,
and Other Mathematical Toys
Adventures in Group Theory
Theorem Proving in Higher
Order Logics

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David Singmaster believes in the presentation and teaching of mathematics as recreation. When the Rubik's Cube took off in 1978, based on thinly disguised mathematics, he became seriously interested in mathematical puzzles

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which would provide mental stimulation for students and professional mathematicians. He has not only published the standard mathematical solution for the Rubik's cube still in use today, but he has also become the de facto

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scribe and noted chronicler of the recreational mathematics puzzles themselves. Dr Singmaster is also an ongoing lecturer of recreational mathematics around the globe, a noted mechanical puzzle collector, owner of thousands of books

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related to recreational mathematical puzzles and the 'go to' source for the history of individual mathematical puzzles. This set of two books provides readers with an adventure into previously unknown origins of ancient puzzles, which

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could be traced back to their Medieval, Chinese, Arabic and Indian sources. The puzzles are fully described, many with illustrations, adding interest to their history and relevance to contemporary mathematical

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concepts. These are musings of a respected historian of recreational mathematics.

This book constitutes the refereed proceedings of the 21st International Conference on Theorem Proving in Higher Order

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Logics, TPHOLs 2008, held in Montreal, Canada, in August 2008. The 17 revised full papers presented together with 1 proof pearl (concise and elegant presentations of interesting examples), 5 tool presentations,

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and 2 invited papers were carefully reviewed and selected from 40 submissions. The papers cover all aspects of theorem proving in higher order logics as well as related topics in theorem proving and verification such as formal

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semantics of specification, modeling, and programming languages, specification and verification of hardware and software, formalisation of mathematical theories, advances in theorem prover technology, as well

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as industrial application of theorem provers.

CONTEMPORARY ABSTRACT ALGEBRA, NINTH EDITION

provides a solid introduction to the traditional topics in abstract algebra while conveying to students that it

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is a contemporary subject used daily by working mathematicians, computer scientists, physicists, and chemists. The text includes numerous figures, tables, photographs, charts, biographies, computer exercises, and suggested

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readings giving the subject a current feel which makes the content interesting and relevant for students. Important Notice: Media content referenced within the product description or the product text may not be available in the

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ebook version.

The Handbook of Cubic Math unveils the theory involved in Rubik's Cube's solution, the potential applications of that theory to other similar puzzles, and how the cube provides a physical

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example for many concepts in mathematics where such examples are difficult to find. Nonetheless, the authors have been able to cover and explain these topics in a way which is easily understandable to the layman, suitable for a junior-

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high-school or high-school course in math, and appropriate for a college course in modern algebra. This manual will satisfy the experts' curiosity about the moves that lead to the solution of the cube and will offer a useful supplementary

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teaching aid to the beginners.

How Mathematical Genius

Discovered the Language of
Symmetry

Ireland, 1912-1985

Theoretical And Practical Pedagogy
Of Mathematical Music Theory:

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Music For Mathematics And
Mathematics For Music, From
School To Postgraduate Levels
Mathematics and Computation in
Music

7th International Conference, MCM
2019, Madrid, Spain, June 18–21,

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2019, Proceedings
Future Access Enablers for
Ubiquitous and Intelligent
Infrastructures
As a student moves from
basic calculus courses
into upper-division

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courses in linear and abstract algebra, real and complex analysis, number theory, topology, and so on, a "bridge" course can help ensure a smooth transition.

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Introduction to Mathematical Structures and Proofs is a textbook intended for such a course, or for self-study. This book introduces an array of

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fundamental mathematical structures. It also explores the delicate balance of intuition and rigor—and the flexible thinking—required to prove a nontrivial

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result. In short, this book seeks to enhance the mathematical maturity of the reader. The new material in this second edition includes a section on graph

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theory, several new sections on number theory (including primitive roots, with an application to card-shuffling), and a brief introduction to the

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complex numbers
(including a section on
the arithmetic of the
Gaussian integers).
Solutions for even
numbered exercises are
available on

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springer.com for instructors adopting the text for a course. Evolutionary Computation (EC) techniques are efficient, nature-inspired methods based on the

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principles of natural evolution and genetics. Due to their efficiency and simple underlying principles, these methods can be used for a diverse range of activities

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ies including problems solving, optimization, machine learning and pattern recognition. A large and continuously increasing number of researchers and professionals make

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use of EC techniques in various application domains. This volume presents a careful selection of relevant EC examples combined with a thorough examination of

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the techniques used in EC. The papers in the volume illustrate the current state of the art in the application of EC and should help and inspire researchers and

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professionals to develop efficient EC methods for design and problem solving. All papers in this book were presented during EvoApplications 2010, which included a

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range of events on application-oriented aspects of EC. Since 1998, EvoApplications — formerly known as EvoWorkshops— has provided a unique

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opportunity for EC researchers to meet and discuss application aspects of EC and has been an important link between EC research and its application in a

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variety of domains.

During these 12 years, new events have arisen, some have disappeared, while others have matured to become conferences of their own, such as EuroGP in

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2000, EvoCOP in 2004, and EvoBIO in 2007. And from this year, EvoApplications has become a conference as well.

Assessing the relative

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importance of British influence and of indigenous impulses in shaping an independent Ireland, this book identifies the relationship between

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personality and process in determining Irish history.

TCRP report 155 provides guidelines and descriptions for the design of various common

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types of light rail transit (LRT) track. The track structure types include ballasted track, direct fixation ("ballastless") track, and embedded track. The

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report considers the characteristics and interfaces of vehicle wheels and rail, tracks and wheel gauges, rail sections, alignments, speeds, and track

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moduli. The report includes chapters on vehicles, alignment, track structures, track components, special track work, aerial structures/bridges,

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corrosion control, noise and vibration, signals, traction power, and the integration of LRT track into urban streets.

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Mathematical Structures

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Puzzles and the

Mathematical Mind

The Force of Symmetry

Track Design Handbook

for Light Rail Transit

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