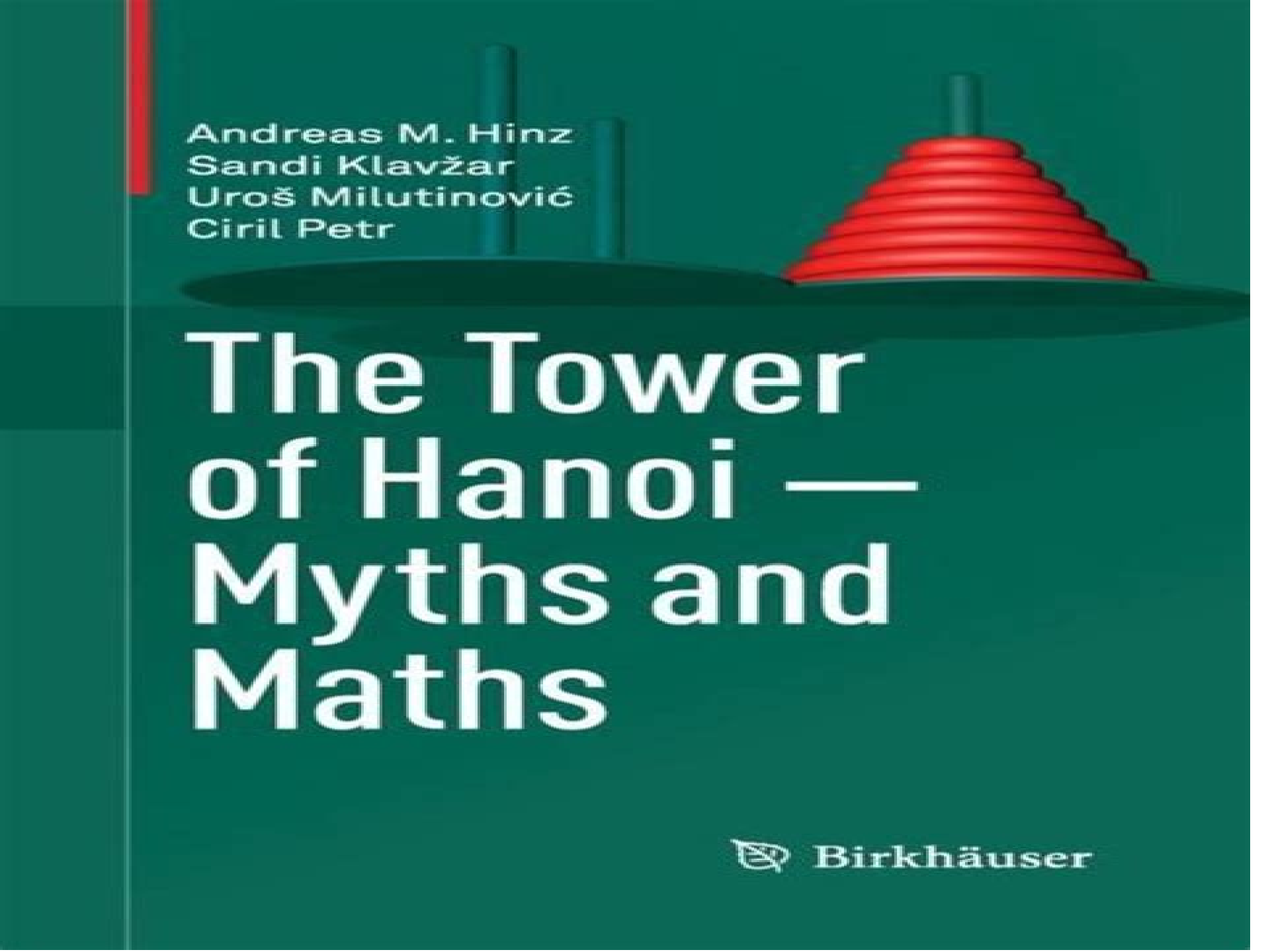




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The Tower of Hanoi — Myths and Maths

 Birkhäuser

The Tower Of Hanoi Myths And Maths

Ian Stewart



The Tower Of Hanoi Myths And Maths:

The Tower of Hanoi - Myths and Maths Andreas M. Hinz, Sandi Klavžar, Ciril Petr, 2018-04-17 The solitary game The Tower of Hanoi was invented in the 19th century by the French number theorist Édouard Lucas. The book presents its mathematical theory and offers a survey of the historical development from predecessors up to recent research. In addition to long standing myths it provides a detailed overview of the essential mathematical facts with complete proofs and also includes unpublished material e.g. on some captivating integer sequences. The main objects of research today are the so called Hanoi graphs and the related Sierpinski graphs. Acknowledging the great popularity of the topic in computer science algorithms together with their correctness proofs form an essential part of the book. In view of the most important practical applications namely in physics, network theory and cognitive neuro psychology the book also addresses other structures related to the Tower of Hanoi and its variants. The updated second edition includes for the first time in English the breakthrough reached with the solution of the Tower of Hanoi puzzle in 2014. This is a special case of the famed Frame-Stewart conjecture which is still open after more than 75 years. Enriched with elaborate illustrations, connections to other puzzles and challenges for the reader in the form of solved exercises as well as problems for further exploration, this book is enjoyable reading for students, educators, game enthusiasts and researchers alike. Excerpts from reviews of the first edition: The book is an unusual but very welcome form of mathematical writing: recreational mathematics taken seriously and serious mathematics treated historically. I don't hesitate to recommend this book to students, professional research mathematicians, teachers and to readers of popular mathematics who enjoy more technical expository detail. Chris Sangwin, The Mathematical Intelligencer 37 (4) 2015 87f. The book demonstrates that the Tower of Hanoi has a very rich mathematical structure and as soon as we tweak the parameters we surprisingly quickly find ourselves in the realm of open problems. László Kozma, ACM SIGACT News 45 (3) 2014 34ff. Each time I open the book I discover a renewed interest in the Tower of Hanoi. I am sure that this will be the case for all readers. Jean-Paul Allouche, Newsletter of the European Mathematical Society 93 2014 56.

Discrete Encounters Craig Bauer, 2020-05-14 Eschewing the often standard dry and static writing style of traditional textbooks, Discrete Encounters provides a refreshing approach to discrete mathematics. The author blends traditional course topics and applications with historical context, pop culture references and open problems. This book focuses on the historical development of the subject and provides fascinating details of the people behind the mathematics along with their motivations, deepening readers' appreciation of mathematics. This unique book covers many of the same topics found in traditional textbooks but does so in an alternative, entertaining style that better captures readers' attention. In addition to standard discrete mathematics material, the author shows the interplay between the discrete and the continuous and includes high interest topics such as fractals, chaos theory, cellular automata, money saving, financial mathematics and much more. Not only will readers gain a greater understanding of mathematics and its culture; they will also be encouraged to further explore

the subject Long lists of references at the end of each chapter make this easy Highlights Features fascinating historical context to motivate readers Text includes numerous pop culture references throughout to provide a more engaging reading experience Its unique topic structure presents a fresh approach The text s narrative style is that of a popular book not a dry textbook Includes the work of many living mathematicians Its multidisciplinary approach makes it ideal for liberal arts mathematics classes leisure reading or as a reference for professors looking to supplement traditional courses Contains many open problems Profusely illustrated *The Mathematics Enthusiast* Bharath Sriraman,2014-12-01 The Mathematics Enthusiast TME is an eclectic internationally circulated peer reviewed journal which focuses on mathematics content mathematics education research innovation interdisciplinary issues and pedagogy The journal exists as an independent entity It is published on a print on demand basis by Information Age Publishing and the electronic version is hosted by the Department of Mathematical Sciences University of Montana The journal is not affiliated to nor subsidized by any professional organizations but supports PMENA Psychology of Mathematics Education North America through special issues on various research topics **The Mathematics of Various Entertaining Subjects** Jennifer Beineke,Jason Rosenhouse,2017-09-05 The history of mathematics is filled with major breakthroughs resulting from solutions to recreational problems Problems of interest to gamblers led to the modern theory of probability for example and surreal numbers were inspired by the game of Go Yet even with such groundbreaking findings and a wealth of popular level books research in recreational mathematics has often been neglected The Mathematics of Various Entertaining Subjects now returns with a brand new compilation of fascinating problems and solutions in recreational mathematics This latest volume gathers together the top experts in recreational math and presents a compelling look at board games card games dice toys computer games and much more The book is divided into five parts puzzles and brainteasers geometry and topology graph theory games of chance and computational complexity Readers will discover what origami roulette wheels and even the game of Trouble can teach about math Essays contain new results and the contributors include short expositions on their topic s background providing a framework for understanding the relationship between serious mathematics and recreational games Mathematical areas explored include combinatorics logic graph theory linear algebra geometry topology computer science operations research probability game theory and music theory Investigating an eclectic mix of games and puzzles The Mathematics of Various Entertaining Subjects is sure to entertain challenge and inspire academic mathematicians and avid math enthusiasts alike *50 Visions of Mathematics* Dara O' Briain,2014-05-01 Relax no one understands technical mathematics without lengthy training but we all have an intuitive grasp of the ideas behind the symbols To celebrate the 50th anniversary of the founding of the Institute of Mathematics and its Applications IMA this book is designed to showcase the beauty of mathematics including images inspired by mathematical problems together with its unreasonable effectiveness and applicability without frying your brain The book is a collection of 50 original essays contributed by a wide variety of

authors. It contains articles by some of the best expositors of the subject: Sautoy, Singh, and Stewart, for example, together with entertaining biographical pieces and articles of relevance to our everyday lives such as Spiegelhalter on risk and Elwes on medical imaging. The topics covered are deliberately diverse and involve concepts from simple numerology to the very cutting edge of mathematics research. Each article is designed to be read in one sitting and to be accessible to a general audience. There is also other content: There are 50 pictorial visions of mathematics which were supplied in response to an open call for contributions from IMA members, plus readers and the worldwide mathematics community. You'll also find a series of proofs of Pythagoras's Theorem, mathematical literary and comedy. After this, you'll never think of Pythagoras the same way again.

A Richer Picture of Mathematics David E. Rowe, 2018-02-13. Historian David E. Rowe captures the rich tapestry of mathematical creativity in this collection of essays from the *Years Ago* column of *The Mathematical Intelligencer*. With topics ranging from ancient Greek mathematics to modern relativistic cosmology, this collection conveys the impetus and spirit of Rowe's various and many faceted contributions to the history of mathematics. Centered on the Göttingen mathematical tradition, these stories illuminate important facets of mathematical activity often overlooked in other accounts. Six sections place the essays in chronological and thematic order, beginning with new introductions that contextualize each section. The essays that follow recount episodes relating to the section's overall theme. All of the essays in this collection, with the exception of two, appeared over the course of more than 30 years in *The Mathematical Intelligencer*. Based largely on archival and primary sources, these vignettes offer unusual insights into the scenes and events. Taken together, they aim to show how Göttingen managed to attract an extraordinary array of talented individuals, several of whom contributed to the development of a new mathematical culture during the first decades of the twentieth century.

[Games of No Chance 5](#) Urban Larsson, 2019-05-09. Surveys the state of the art in combinatorial game theory that is, games not involving chance or hidden information.

Unconventional Computation and Natural Computation Martyn Amos, Anne Condon, 2016-06-17. This book constitutes the refereed proceedings of the 15th International Conference on Unconventional Computation and Natural Computation (UCNC 2016) held in Manchester, UK, in July 2016. The 15 revised full papers presented together with 5 invited papers were carefully reviewed and selected from 30 submissions. The papers cover a wide range of topics including molecular, cellular, quantum, optical, and chaos computing; cellular automata; neural and evolutionary computation; artificial immune systems; ant algorithms and swarm intelligence; amorphous computing; membrane computing; computational systems biology; and computational neuroscience and synthetic biology.

The Zeroth Book of Graph Theory Martin Charles Golumbic, André Sainte-Laguë, 2021-02-09. Marking 94 years since its first appearance, this book provides an annotated translation of Sainte-Laguë's seminal monograph *Les r-seaux ou graphes*, drawing attention to its fundamental principles and ideas. Sainte-Laguë's 1926 monograph appeared only in French, but in the 1990s H. Gropp published a number of English papers describing several aspects of the book. He expressed his hope that an English translation might sometime be available.

to the mathematics community In the 10 years following the appearance of *Les r seaux ou graphes* the development of graph theory continued culminating in the publication of the first full book on the theory of finite and infinite graphs in 1936 by D nes K nig This remained the only well known text until Claude Berge s 1958 book on the theory and applications of graphs By 1960 graph theory had emerged as a significant mathematical discipline of its own This book will be of interest to graph theorists and mathematical historians

The Best Writing on Mathematics 2014 Mircea Pitici, 2015 An anthology of the year s finest writing on mathematics from around the world featuring promising new voices as well as some of the foremost names in mathematics

Mathematics and Its Connections to the Arts and Sciences (MACAS) Claus Michelsen, Astrid Beckmann, Viktor Freiman, Uffe Thomas Jankvist, Annie Savard, 2022-12-19 This book celebrates the 15th anniversary of the bi annual symposium series Mathematics and its Connections to the Arts and Sciences MACAS which was first held in 2005 following the continued collaboration of an international group of researchers from ICME Topic Study Group 21 The MACAS conferences bring together scientists and educators who are interested in the connection between mathematics arts and science in educational curriculum while emphasizing on as well as researching about the role of mathematics By pooling together these different approaches and viewpoints between mathematics arts and sciences this book reveals possible synergies and paths for collaborations In view of the challenges of the 21st century a modern approach to education with a focus on multi and interdisciplinarity is more important than ever The role of mathematics assumes a key role in this approach as it is connected to all other disciplines such as STEM education physics chemistry biology aesthetics and language and can serve as a bridge between them This book discusses amongst others the curricular approaches to integrate mathematics and other disciplines the importance of mathematical modelling and the interdisciplinarity ways for learning and studying of mathematics as well as the intercultural dimensions of mathematics and mathematics in the digital era All topics will be presented from very different perspectives and regarding very different contexts including digitization culture and sustainability This unique collection will serve as a very valuable and compact source for all above mentioned scientists and educators as well as for use in advanced teacher education courses

An Invitation to Fractal Geometry Michel L. Lapidus, Goran Radunović, 2024-12-30 This book offers a comprehensive exploration of fractal dimensions self similarity and fractal curves Aimed at undergraduate and graduate students postdocs mathematicians and scientists across disciplines this text requires minimal prerequisites beyond a solid foundation in undergraduate mathematics While fractal geometry may seem esoteric this book demystifies it by providing a thorough introduction to its mathematical underpinnings and applications Complete proofs are provided for most of the key results and exercises of different levels of difficulty are proposed throughout the book Key topics covered include the Hausdorff metric Hausdorff measure and fractal dimensions such as Hausdorff and Minkowski dimensions The text meticulously constructs and analyzes Hausdorff measure offering readers a deep understanding of its properties Through emblematic examples like the Cantor set the Sierpinski gasket the

Koch snowflake curve and the Weierstrass curve readers are introduced to self similar sets and their construction via the iteration of contraction mappings The book also sets the stage for the advanced theory of complex dimensions and fractal drums by gently introducing it via a variety of classical examples including well known fractal curves By intertwining historical context with rigorous mathematical exposition this book serves as both a stand alone resource and a gateway to deeper explorations in fractal geometry

Graph and Network Theory Michael A. Henning, Jan H. van Vuuren, 2022-06-03 This textbook covers a diversity of topics in graph and network theory both from a theoretical standpoint and from an applied modelling point of view Mathematica is used to demonstrate much of the modelling aspects Graph theory and model building tools are developed in tandem with effective techniques for solving practical problems via computer implementation The book is designed with three primary readerships in mind Individual syllabi or suggested sequences for study are provided for each of three student audiences mathematics applied mathematics operations research and computer science In addition to the visual appeal of each page the text contains an abundance of gems Most chapters open with real life problem descriptions which serve as motivation for the theoretical development of the subject matter Each chapter concludes with three different sets of exercises The first set of exercises are standard and geared toward the more mathematically inclined reader Many of these are routine exercises designed to test understanding of the material in the text but some are more challenging The second set of exercises is earmarked for the computer technologically savvy reader and offer computer exercises using Mathematica The final set consists of larger projects aimed at equipping those readers with backgrounds in the applied sciences to apply the necessary skills learned in the chapter in the context of real world problem solving Additionally each chapter offers biographical notes as well as pictures of graph theorists and mathematicians who have contributed significantly to the development of the results documented in the chapter These notes are meant to bring the topics covered to life allowing the reader to associate faces with some of the important discoveries and results presented In total approximately 100 biographical notes are presented throughout the book The material in this book has been organized into three distinct parts each with a different focus The first part is devoted to topics in network optimization with a focus on basic notions in algorithmic complexity and the computation of optimal paths shortest spanning trees maximum flows and minimum cost flows in networks as well as the solution of network location problems The second part is devoted to a variety of classical problems in graph theory including problems related to matchings edge and vertex traversal connectivity planarity edge and vertex coloring and orientations of graphs Finally the focus in the third part is on modern areas of study in graph theory covering graph domination Ramsey theory extremal graph theory graph enumeration and application of the probabilistic method

Fibonacci Cubes With Applications And Variations Omer Egecioğlu, Sandi Klavžar, Michel Mollard, 2023-02-17 Fibonacci Cubes have been an extremely popular area of research since the 1990s This unique compendium features the state of research into Fibonacci Cubes It expands the knowledge in graph theoretic and

combinatorial properties of Fibonacci Cubes and their variants By highlighting various approaches with numerous examples it provides a fundamental source for further research in the field This useful reference text surely benefits advanced students in computer science and mathematics and serves as an archival record of the current state of the field **Ahmes' Legacy**

Marcel Danesi,2018-08-11 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 mathematics from Dehaene Butterworth Lakoff Nezh and many others as a lens to understand the ways in which puzzles reflect imaginative processes blended with 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 imagination and its impact on the discipline It delves into the history of classic math puzzles deconstructing their rationale and describing their 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 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 engage in the disciplines of mathematics psychology neuroscience and or anthropology It is also ideal as a textbook source for courses in recreational mathematics or as reference material in introductory college math courses Assessing and

Measuring Statistics Cognition in Higher Education Online Environments: Emerging Research and Opportunities Chase, Justin P.,Yan, Zheng,2017-05-18 The ability to effectively learn process and retain new information is critical to the success of any student Since mathematics are becoming increasingly more important in our educational systems it is imperative that we devise an efficient system to measure these types of information recall Assessing and Measuring Statistics Cognition in Higher Education Online Environments Emerging Research and Opportunities is a critical reference source that overviews the current state of higher education learning assessment systems Featuring extensive coverage on relevant topics such as statistical cognitions online learning implications cognitive development and curricular mismatches this publication is ideally designed for academics students educators professionals and researchers seeking innovative perspectives on current assessment and measurement systems within our educational facilities **Robot-Assisted Learning and Education**

Agnese Augello,Linda Daniela,Manuel Gentile,Dirk Ifenthaler,Giovanni Pilato,2021-01-04 **The Lucas Sequences** Christian J.-C. Ballot,Hugh C. Williams,2023-10-19 Although the Lucas sequences were known to earlier investigators such as Lagrange Legendre and Genocchi it is because of the enormous number and variety of results involving them revealed by douard Lucas between 1876 and 1880 that they are now named after him Since Lucas early work much more has been discovered concerning these remarkable mathematical objects and the objective of this book is to provide a much more thorough discussion of them than is available in existing monographs In order to do this a large variety of results currently scattered throughout the literature are brought together Various sections are devoted to the intrinsic arithmetic properties of these sequences primality testing the Lucasnomials some associated density problems and Lucas problem of finding a

suitable generalization of them Furthermore their application not only to primality testing but also to integer factoring efficient solution of quadratic and cubic congruences cryptography and Diophantine equations are briefly discussed Also many historical remarks are sprinkled throughout the book and a biography of Lucas is included as an appendix Much of the book is not intended to be overly detailed Rather the objective is to provide a good elementary and clear explanation of the subject matter without too much ancillary material Most chapters with the exception of the second and the fourth will address a particular theme provide enough information for the reader to get a feel for the subject and supply references to more comprehensive results Most of this work should be accessible to anyone with a basic knowledge of elementary number theory and abstract algebra The book's intended audience is number theorists both professional and amateur students and enthusiasts

The Logical Approach to Automatic Sequences Jeffrey Shallit, 2022-09-29 Automatic sequences are sequences over a finite alphabet generated by a finite state machine This book presents a novel viewpoint on automatic sequences and more generally on combinatorics on words by introducing a decision method through which many new results in combinatorics and number theory can be automatically proved or disproved with little or no human intervention This approach to proving theorems is extremely powerful allowing long and error prone case based arguments to be replaced by simple computations Readers will learn how to phrase their desired results in first order logic using free software to automate the computation process Results that normally require multipage proofs can emerge in milliseconds allowing users to engage with mathematical questions that would otherwise be difficult to solve With more than 150 exercises included this text is an ideal resource for researchers graduate students and advanced undergraduates studying combinatorics sequences and number theory

Professor Stewart's Incredible Numbers Ian Stewart, 2015-04-07 Renowned mathematician Ian Stewart uses remarkable and some unremarkable numbers to introduce readers to the beauty of mathematics At its heart mathematics is about numbers our fundamental tools for understanding the world In Professor Stewart's Incredible Numbers Ian Stewart offers a delightful introduction to the numbers that surround us from the common π and 2 to the uncommon but no less consequential 1 059463 and 43 252 003 274 489 856 000 Along the way Stewart takes us through prime numbers cubic equations the concept of zero the possible positions on the Rubik's Cube the role of numbers in human history and beyond An unfailingly genial guide Stewart brings his characteristic wit and erudition to bear on these incredible numbers offering an engaging primer on the principles and power of math

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