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The Tower of Hanoi — Myths and Maths

 Birkhäuser

The Tower Of Hanoi Myths And Maths

David E. Rowe



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myths it provides a detailed overview of the essential mathematical facts with complete proofs and also includes unpublished material e.g. on some captivating integer sequences.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

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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 du 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 G ttingen 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 behind the scenes events Taken together they aim to show how G ttingen 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 Lagu s seminal monograph Les r seaux ou graphes drawing attention to its fundamental principles and ideas Sainte Lagu 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

This book delves into The Tower Of Hanoi Myths And Maths. The Tower Of Hanoi Myths And Maths is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into The Tower Of Hanoi Myths And Maths, encompassing both the fundamentals and more intricate discussions.

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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of The Tower Of Hanoi Myths And Maths.

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