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An engaging treatment of an 800-year-old problem explores the occurrence of Fibonacci numbers in number theory, continued fractions, and geometry. Its entertaining style will appeal to recreational readers and students alike.

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Book Prize in 2006! Mathematics is the
science of patterns, and
mathematicians attempt to understand
these patterns and discover new ones
using a variety of tools. In Proofs That

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Really Count, award-winning math professors Arthur Benjamin and Jennifer Quinn demonstrate that many number patterns, even very complex ones, can be understood by simple counting arguments. The book emphasizes numbers that are often not

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thought of as numbers that count: Fibonacci Numbers, Lucas Numbers, Continued Fractions, and Harmonic Numbers, to name a few. Numerous hints and references are given for all chapter exercises and many chapters end with a list of identities in need of

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combinatorial proof. The extensive appendix of identities will be a valuable resource. This book should appeal to readers of all levels, from high school math students to professional mathematicians. This book contains 33 papers from

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among the 41 papers presented at the
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Eighth International Conference on
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Fibonacci Numbers and Their
Applications which was held at the
Rochester Institute of Technology,
Rochester, New York, from June 22 to
June 26, 1998. These papers have been

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selected after a careful review by well known referees in the field, and they range from elementary number theory to probability and statistics. The Fibonacci numbers and recurrence relations are their unifying bond. It is anticipated that this book, like its sever

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predecessors, will be useful to research
workers and graduate students

interested in the Fibonacci numbers
and their applications. June 1, 1999

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Zealand) Waddill, M. E. (U. S. A.) xix
LIST OF CONTRIBUTORS TO THE
CONFERENCE AGRATINI,
OCTAVIAN, "Unusual Equations in
Study. " *ANDO, SHIRO, (coauthor
Daihachiro Sato), "On the Generalized
Binomial Coefficients Defined by

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Strong Divisibility Sequences. "
*ANATASSOVA, VASSIA K. ,
(coauthor J. C.

The most ubiquitous, and perhaps the most intriguing, number pattern in mathematics is the Fibonacci sequence. In this simple pattern beginning with

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two ones, each succeeding number is the sum of the two numbers immediately preceding it (1, 1, 2, 3, 5, 8, 13, 21, ad infinitum). Far from being just a curiosity, this sequence recurs in structures found throughout nature - from the arrangement of whorls on a

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pinecone to the branches of certain plant stems. All of which is astounding evidence for the deep mathematical basis of the natural world. With admirable clarity, two veteran math educators take us on a fascinating tour of the many ramifications of the

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Fibonacci numbers. They begin with a brief history of a distinguished Italian discoverer, who, among other accomplishments, was responsible for popularizing the use of Arabic numerals in the West. Turning to botany, the authors demonstrate,

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through illustrative diagrams, the unbelievable connections between Fibonacci numbers and natural forms (pineapples, sunflowers, and daisies are just a few examples). In art, architecture, the stock market, and other areas of society and culture, they

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point out numerous examples of the Fibonacci sequence as well as its derivative, the "golden ratio." And of course in mathematics, as the authors amply demonstrate, there are almost boundless applications in probability, number theory, geometry, algebra, and

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Pascal's triangle, to name a few.

Accessible and appealing to even the most math-phobic individual, this fun and enlightening book allows the reader to appreciate the elegance of mathematics and its amazing applications in both natural and

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cultural settings.

Triangular Arrays of Numbers Related
to Fibonacci and Lucas Numbers
Leonardo Pisano (Fibonacci)
Volume 6 Proceedings of 'The Sixth
International Research Conference on
Fibonacci Numbers and Their

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University, Pullman, Washington,
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Catalan Numbers with Applications

This book contains thirty-

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*three papers from among the
thirty-eight papers presented
at the Fourth International
Conference on Fibonacci
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Carolina from July 30 to August 3, 1990. These papers have been selected after a careful review by well known referees in the field, and they range from elementary number theory to probability and statistics. The Fibonacci

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numbers and recurrence relations are their unifying bond. It is anticipated that this book, like its three predecessors, will be useful to research workers and graduate students interested in the Fibonacci numbers and

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***their applications. March 1,
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(Italy) Kiss, P. (Hungary)

Turner, J. C. (New Zealand)

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***"Pascal's Triangle: Top Gun or
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and the ancient principle of***

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***the Golden Section covers
areas relevant to operational
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statistics and engineering. First published in 1202, Fibonacci's Liber Abaci was one of the most important books on mathematics in the Middle Ages, introducing Arabic numerals and methods throughout Europe. This is

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the first translation into a modern European language, of interest not only to historians of science but also to all mathematicians and mathematics teachers interested in the origins of their methods.

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boring, says the mathematician and comedian Matt Parker. Part of the problem may be the way the subject is taught, but it's also true that we all, to a greater or lesser extent, find math

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difficult and counterintuitive. This counterintuitiveness is actually part of the point, argues Parker: the extraordinary thing about math is that it allows us to access logic and ideas beyond

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***Ross Honsberger was born in
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Toronto. After more than a
decade of teaching***

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*mathematics in Toronto, he
took advantage of a sabbatical
leave to continue his studies
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Canada. He joined the faculty
in 1964 (Department of
Combinatorics and*

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Optimization) and has been there ever since. He is married, the father of three, and grandfather of three. He has published seven bestselling books with the Mathematical Association of

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wondrous properties of
Fibonacci numbers. Being of*

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account of the subject, a few
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reveal the bearing of Fibonacci
numbers on mathematics, but
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marvels of mathematical reasoning. This book is the translation of the 6th Russian edition (the first edition appeared in the early fifties and became a standard source of information on the subject).

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Theorem, the text goes on

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