

## Mathematics A Very Short Introduction Timothy Gowers

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[Mathematics: A Very Short Introduction \(Very Short ...](#)

Abstract The aim of [Mathematics: A Very Short Introduction](#) is to explain, carefully but not technically, the differences between advanced, research-level mathematics, and the sort of mathematics we learn at school. It offers readers an insight into such seemingly paradoxical concepts as infinity, imaginary numbers, and curved space.

[Mathematics: A Very Short Introduction - Very Short ...](#)

Having read a few of the Very Short Introduction (VSI) series, I wanted to revisit some of the joy of university life by returning to mathematics, the subject which I studied as an undergraduate. With the title as it is, one might wonder what sort of level as it 's pitched at.

[Mathematics: A Very Short Introduction \(Very Short ...](#)

[Mathematics: A Very Short Introduction](#). Timothy Gowers, Timothy (Rouse Ball Professor of Mathematics Gowers, Cambridge University) OUP Oxford, Aug 22, 2002 - Mathematics - 143 pages. 7 Reviews. The aim of this book is to explain, carefully but not technically, the differences between advanced, research-level mathematics, and the sort of mathematics we learn at school.

[Mathematics: A Very Short Introduction - Timothy Gowers ...](#)

Very Short Introductions A concise explanation of the differences between advanced

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mathematics and what we learn at school Offers the reader an insight into such seemingly paradoxical concepts as infinity, the square root of minus one, and... Tackles the sociological questions that arise regarding ...

Mathematics: A Very Short Introduction - Timothy Gowers ...

Mathematics: a Very Short Introduction. One of Oxford University Press's series of "Short Introductions", this book is a rigorous and challenging description, by one of the greatest pure mathematicians alive (Timothy Gowers is Rouse Ball Professor of Mathematics at the University of Cambridge, and a Fields Medal recipient), of what mathematics is. Perhaps too challenging, in fact - on page 23 we are introduced to an axiomatisation of number systems, and things only get tougher.

'Mathematics: a Very Short Introduction' | plus.maths.org

"This Very Short Introduction explores the rich historical and cultural diversity of mathematical practice, ranging from the distant past to the present. Historian Jacqueline Stedall shows that mathematical ideas are far from being fixed, but are adapted and changed by their passage across periods and cultures.

The History of Mathematics: A Very Short Introduction ...

He is absolutely the right sort of person to write a very short introduction to mathematics: as a top-notch mathematician, he can write with a deep understanding of what mathematical research is like; as someone who has thought seriously about the nature and meaning of mathematics, he can offer us a coherent view of the field.

Mathematics: A Very Short Introduction | Mathematical ...

Probably the best short introduction to what draws some people to do mathematics. I think all math majors and college students who are taking math for a liberal arts requirement should read it. You'll think about things abstractly and get a feeling for what constitutes a mathematical proof.

Amazon.com: Mathematics: A Very Short Introduction ...

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Very Short Introductions - Oxford University Press

This Very Short Introduction presents a compact yet comprehensive view of the field of applied mathematics, and explores its relationships with (pure) mathematics, science, and engineering. Explaining the nature of applied mathematics, Alain Goriely discusses its early achievements in physics and engineering, and its development as a separate field after World War II.

Applied Mathematics: A Very Short Introduction (Very Short ...

With the title as it is, one might wonder what sort of level as it 's pitched at. Here, one could be lulled into a false sense of security by mistaking it for " Arithmetic: A Very Short Introduction ". Do not expect this to be " a very simple introduction ". To anyone who has studied maths at university, this will be a very simple book.

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Mathematics: A Very Short Introduction by Timothy Gowers and Publisher OUP Oxford. Save up to 80% by choosing the eTextbook option for ISBN: 9780191579417, 0191579416. The print version of this textbook is ISBN: 9780192853615, 0192853619.

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Mathematics: A Very Short Introduction. Timothy Gowers. The aim of this book is to explain, carefully but not technically, the differences between advanced, research-level mathematics, and the sort of mathematics we learn at school. The most fundamental differences are philosophical, and readers of this book will emerge with a clearer understanding of paradoxical-sounding concepts such as infinity, curved space, and imaginary numbers.

Mathematics: A Very Short Introduction | Timothy Gowers ...

Very Short Introductions (VSI) is a book series published by the Oxford University Press (OUP). The books are concise introductions to particular subjects, intended for a general audience but written by experts. Most are under 200 pages long.

Very Short Introductions - Wikipedia

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This Very Short Introduction presents a compact yet comprehensive view of the field of applied mathematics, and explores its relationships with (pure) mathematics, science, and engineering.

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The aim of this volume is to explain the differences between research-level mathematics and the maths taught at school. Most differences are philosophical and the first few chapters are about general aspects of mathematical thought.

The aim of this book is to explain, carefully but not technically, the differences between advanced, research-level mathematics, and the sort of mathematics we learn at school. The most fundamental differences are philosophical, and readers of this book will emerge with a clearer understanding of paradoxical-sounding concepts such as infinity, curved space, and imaginary numbers. The first few chapters are about general aspects of mathematical thought. These are followed by discussions of more specific topics, and the book closes with a chapter answering common sociological questions about the mathematical community (such as "Is it true that mathematicians burn out at the age of 25?") ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

## Get Free Mathematics A Very Short Introduction Timothy Gowers

In this Very Short Introduction, Jacqueline Stedall explores the rich historical and cultural diversity of mathematical endeavour from the distant past to the present day, using illustrative case studies drawn from a range of times and places; including early imperial China, the medieval Islamic world, and nineteenth-century Britain.

Mathematics is playing an increasing important role in society and the sciences, enhancing our ability to use models and handle data. While pure mathematics is mostly interested in abstract structures, applied mathematics sits at the interface between this abstract world and the world in which we live. This area of mathematics takes its nourishment from society and science and, in turn, provides a unified way to understand problems arising in diverse fields. This Very Short Introduction presents a compact yet comprehensive view of the field of applied mathematics, and explores its relationships with (pure) mathematics, science, and engineering. Explaining the nature of applied mathematics, Alain Goriely discusses its early achievements in physics and engineering, and its development as a separate field after World War II. Using historical examples, current applications, and challenges, Goriely illustrates the particular role that mathematics plays in the modern sciences today and its far-reaching potential. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

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In this Very Short Introduction Peter M. Higgins presents an overview of the number types featured in modern science and mathematics. Providing a non-technical account, he explores the evolution of the modern number system, examines the fascinating role of primes, and explains their role in contemporary cryptography.

In the 1800s mathematicians introduced a formal theory of symmetry: group theory. Now a branch of abstract algebra, this subject first arose in the theory of equations. Symmetry is an immensely important concept in mathematics and throughout the sciences, and its applications range across the entire subject. Symmetry governs the structure of crystals, innumerable types of pattern formation, how systems change their state as parameters vary;

and fundamental physics is governed by symmetries in the laws of nature. It is highly visual, with applications that include animal markings, locomotion, evolutionary biology, elastic buckling, waves, the shape of the Earth, and the form of galaxies. In this Very Short Introduction, Ian Stewart demonstrates its deep implications, and shows how it plays a major role in the current search to unify relativity and quantum theory. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

In recent years the finance industry has mushroomed to become an important part of modern economies, and many science and engineering graduates have joined the industry as quantitative analysts, with mathematical and computational skills that are needed to solve complex problems of asset valuation and risk management. An important parallel story exists of scientific endeavour. Between 1965-1995, insightful ideas in economics about asset valuation were turned into a mathematical 'theory of arbitrage', an enterprise whose first achievement was the famous 1973 Black-Scholes formula, followed by extensive investigations using all the resources of modern analysis and probability. The growth of the finance industry proceeded hand-in-hand with these developments. Now new challenges arise to deal with the fallout from the 2008 financial crisis and to take advantage of new technology, which has revolutionized the practice of trading. This Very Short Introduction introduces readers with no previous background in this area to arbitrage theory and why it works the way it does. Illuminating pricing theory, Mark Davis explains its applications to interest rates, credit trading, fund management and risk management. He concludes with a survey of the most pressing issues in mathematical finance today. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Modern statistics is very different from the dry and dusty discipline of the popular imagination. In its place is an exciting subject which uses deep theory and powerful software tools to shed light and enable understanding. And it sheds this light on all aspects of our lives, enabling astronomers to explore the origins of the universe, archaeologists to investigate ancient civilisations, governments to understand how to benefit and improve society, and businesses to learn how best to provide goods and services. Aimed at readers with no prior mathematical knowledge, this Very Short Introduction explores and explains how statistics work, and how we can decipher them. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Making good decisions under conditions of uncertainty - which is the norm - requires a sound appreciation of the way random chance works. As analysis and modelling of most aspects of the world, and all measurement, are necessarily imprecise and involve uncertainties of varying degrees, the understanding and management of probabilities is central to much work in the sciences and economics. In this Very Short Introduction, John Haigh introduces the ideas of probability and different philosophical approaches to probability, and gives a brief account of the history of development of probability theory, from Galileo and Pascal to Bayes,

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Laplace, Poisson, and Markov. He describes the basic probability distributions, and goes on to discuss a wide range of applications in science, economics, and a variety of other contexts such as games and betting. He concludes with an intriguing discussion of coincidences and some curious paradoxes. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

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