



Peter M. Higgins

# ALGEBRA

A Very Short Introduction

OXFORD

# Algebra A Very Short Introduction Very Short Introductions

**Timothy Gowers**



## **Algebra A Very Short Introduction Very Short Introductions:**

**Algebra** Peter M. Higgins, 2015 This Very Short Introduction invites readers to revisit algebra and appreciate the elegance and power of equations and inequalities Offering a clear explanation of algebra through theory and example Higgins shows how equations lead to complex numbers matrices groups rings and fields *Mathematics* Timothy Gowers, 2002-08-22 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 *Algebra* Peter M. Higgins, 2015 This introduction invites readers to revisit algebra and appreciate the elegance and power of equations and inequalities Offering a clear explanation of algebra through theory and example Higgins shows how equations lead to complex numbers matrices groups rings and fields *Number Theory: A Very Short Introduction* Robin Wilson, 2020-05-28 Number theory is the branch of mathematics that is primarily concerned with the counting numbers Of particular importance are the prime numbers the building blocks of our number system The subject is an old one dating back over two millennia to the ancient Greeks and for many years has been studied for its intrinsic beauty and elegance not least because several of its challenges are so easy to state that everyone can understand them and yet no one has ever been able to resolve them But number theory has also recently become of great practical importance in the area of cryptography where the security of your credit card and indeed of the nation's defence depends on a result concerning prime numbers that dates back to the 18th century Recent years have witnessed other spectacular developments such as Andrew Wiles's proof of Fermat's last theorem unproved for over 250 years and some exciting work on prime numbers In this Very Short Introduction Robin Wilson introduces the main areas of classical number theory both ancient and modern Drawing on the work of many of the greatest mathematicians of the past such as Euclid Fermat Euler and Gauss he situates some of the most interesting and creative problems in the area in their historical context 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 *The History of Mathematics* Jacqueline Stedall, 2012-02-23 Mathematics is a fundamental human

activity that can be practised and understood in a multitude of ways indeed mathematical ideas themselves are far from being fixed but are adapted and changed by their passage across periods and cultures 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 Arranged thematically to exemplify the varied contexts in which people have learned used and handed on mathematics she also includes illustrative case studies drawn from a range of times and places including early imperial China the medieval Islamic world and nineteenth century Britain 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

*International Law: A Very Short Introduction* Vaughan Lowe, 2015-11-26 Interest in international law has increased greatly over the past decade largely because of its central place in discussions such as the Iraq War and Guantanamo the World Trade Organisation the anti capitalist movement the Kyoto Convention on climate change and the apparent failure of the international system to deal with the situations in Palestine and Darfur and the plights of refugees and illegal immigrants around the world This Very Short Introduction explains what international law is what its role in international society is and how it operates Vaughan Lowe examines what international law can and cannot do and what it is and what it isn't doing to make the world a better place Focussing on the problems the world faces Lowe uses terrorism environmental change poverty and international violence to demonstrate the theories and practice of international law and how the principles can be used for international co operation

**Applied Mathematics** Alain Goriely, 2018-02-13 Mathematics is playing an increasingly 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

*Shakespeare's Comedies: A Very Short Introduction* Bart van Es, 2016-03-24 From *The Two Gentlemen of Verona* in the early 1590s to *The Two Noble Kinsmen* at the end of his career

around 1614 Shakespeare wrote at least eighteen plays that can be called comedies a far higher number than that for any other genre in which he wrote So what is a Shakespearean comedy We associate these plays with such themes as mistaken identities happy marriages and exuberant cross dressing but how representative are these of the oeuvre as a whole In this Very Short Introduction Bart van Es explores the full range of the playwright's comic writing from the neat classical plotting of early works like *The Comedy of Errors* to the corrupt world of the so called problem plays written in the middle years of Shakespeare's life Examining Shakespeare's influences and sources van Es compares his plays to those of his rivals and looks at the history of the plays in performance from the biographies of Shakespeare's original actors to the plays' endless reinvention in modern stage productions and in films Identifying the key qualities that make Shakespearean comedy distinctive van Es traces the changing nature of Shakespeare's comic writing over the course of a career that spanned nearly a quarter century of theatrical change

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*The Vikings: A Very Short Introduction* Julian D. Richards, 2005-09-08 The Viking reputation is of bloodthirsty seafaring warriors repeatedly plundering the British Isles and the North Atlantic throughout the early Middle Ages Yet Vikings were also traders settlers and farmers with a complex artistic and linguistic culture whose expansion overseas led them to cross the Atlantic for the first time in European history Highlighting the latest archaeological evidence Julian Richards reveals the whole Viking world their history society and culture and their expansion overseas for trade colonization and plunder We also look at the Viking identity through their artistic expression rune stones their ships and their religion The Viking story is also brought up to date by examining their legacy from the medieval Icelandic sagas to 19th Century nationalism Wagner and the Nazis

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**Black Holes: A Very Short Introduction** Katherine Blundell, 2015 Black holes are a source of wide fascination In this Very Short Introduction Katherine Blundell addresses a variety of questions including what a black hole actually is how they are characterised and discovered to what happens if you get too close to one Explaining how black holes form and grow across cosmic time as well as how many there are in the Universe she also considers how black holes interact with matter by stealing material that belongs to other stars and how black holes give rise to quasars and other spectacular yet exotic phenomena in outer space

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highly readable     *Foucault: A Very Short Introduction* Gary Gutting, 2019-09-26 Born in 1926 in France Foucault is one of those rare philosophers who has become a cult figure Over the course of his life he dabbled in drugs politics and the Paris SM scene all whilst striving to understand the deep concepts of identity knowledge and power From aesthetics to the penal system from madness and civilisation to avant garde literature Foucault was happy to reject old models of thinking and replace them with versions that are still widely debated today A major influence on Queer Theory and gender studies he was openly gay and died of an AIDS related illness in 1984 he also wrote on architecture history law medicine literature politics and of course philosophy In this Very Short Introduction Gary Gutting presents a wide ranging but non systematic exploration of some highlights of Foucault s life and thought Beginning with a brief biography to set the social and political stage he then tackles Foucault s thoughts on literature in particular the avant garde scene his philosophical and historical work his treatment of knowledge and power in modern society and his thoughts on sexuality This new edition includes feminist criticisms of Foucault s apparently sexist treatment of the Jouy case as well as a new chapter offering a unified overview of the Coll ge de France lectures now a major focus of interest in Foucault 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     *Combinatorics: A Very Short Introduction* Robin Wilson, 2016-04-28 How many possible sudoku puzzles are there In the lottery what is the chance that two winning balls have consecutive numbers Who invented Pascal s triangle it was not Pascal Combinatorics the branch of mathematics concerned with selecting arranging and listing or counting collections of objects works to answer all these questions Dating back some 3000 years and initially consisting mainly of the study of permutations and combinations its scope has broadened to include topics such as graph theory partitions of numbers block designs design of codes and latin squares In this Very Short Introduction Robin Wilson gives an overview of the field and its applications in mathematics and computer theory considering problems from the shortest routes covering certain stops to the minimum number of colours needed to colour a map with different colours for neighbouring countries 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     *Sociology: A Very Short Introduction* Steve Bruce, 2018-09-20 Drawing on studies of social class crime and deviance education work in bureaucracies and changes in religious and political organizations this Very Short Introduction explores the tension between the individual s place in society and society s role in shaping the individual and demonstrates the value of sociology for understanding the modern world In this new edition Steve Bruce discusses the continuing arguments for social egalitarianism considering issues such as



gay marriage women in combat roles and the 2010 Equality Act to debunk contemporary arguments against parity As gender divisions are increasingly questioned he looks ahead to the likely consequences of this for society Delving into the theory of sociology Bruce also argues that the habit of dividing sociology into apparently competing sects is misleading and shows how a new understanding of the disciplinary background of many of the most famous theorists which shows that much social theory is actually philosophy or literary theory will prove useful to today s sociologists 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 Typography: A Very Short Introduction Paul Luna,2018-11-15 Typography the art of designing printed words was once the domain of an elite few artists but has become an area with which millions of people engage daily The widespread usage of digital devices from laptops to tablets and smart phones which are used for written communications means that we are regularly asked to make decisions about the fonts sizes and layouts we use in our writing This broadening engagement with the field of typography has led to a perceptible shift from debates about legibility and technicalities to conversations about which fonts best reflect the writer s personality or style In this Very Short Introduction Paul Luna offers a broad definition of typography as design for reading whether in print or on screens where a set of visual choices are taken to make a written message more accessible more easily transmitted more significant or more attractive Considering the development of letterforms and the shapes of letter we use Luna discusses the history behind our modern day letters and fonts before considering the issues behind key typographic decisions and the differences between printed and on screen typography Presenting any piece of typography as a fundamental design choice Luna introduces the options available today and explores the reasons why key typographic decisions are made 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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web follow the below steps to conduct the diode test 1 for this test set the multimeter in the diode mode 2 for n channel mosfet connect the red probe positive to the source and black one at the drain common the body diode is in forward bias condition this way

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