

## Nothing A Very Short Introduction

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## Introduction

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How To Properly Interpret the Bible- Introduction *Nothing A Very Short Introduction*

"Nothing" - A Very Short Introduction by Frank Close, 2009. Oxford University Press, NY. ISBN 978-0-19-922586-6, SC 158 Pgs. in 6 7/8" x 4 3/8" format that includes 7 Pg. Index plus 4 pages with suggested readings. Inveiglements limited to several B/W illustrations.

*Nothing: A Very Short Introduction (Very Short ...*

Very Short Introductions. This Very Short Introduction tells you everything about 'nothing' - it is the story of how scientists have been puzzled by the physical problem of what remains when you take all the matter away. A lively and stimulating guide, taking the reader from ancient ideas and cultural superstitions about the void, via the theories of Newton and Einstein, to the frontiers of current research in today's powerful particle accelerators.

*Nothing: A Very Short Introduction - Frank Close - Oxford ...*

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Oxford University Press, NY. ISBN 978-0-19-922586-6, SC 158 Pgs. in 6 7/8" x 4 3/8" format that includes 7 Pg. Index plus 4 pages with suggested readings.

*Nothing: A Very Short Introduction (Very Short ...*

Abstract. Nothing: A Very Short Introduction explores the science and history of the elusive Void: from Aristotle, who insisted that the vacuum was impossible, via the theories of Newton and Einstein, to the very latest discoveries and why they can tell us extraordinary things about the cosmos. This VSI tells the story of how scientists have explored the Void and the discoveries that they have made there.

*Nothing: A Very Short Introduction - Very Short Introductions*

Despite its modest subtitle Nothing: A Very Short Introduction is a substantially longer treatment than one would expect of its subject. In fact, the book turns out to be about something rather than nothing.

*Nothing: A Very Short Introduction by Frank Close*

What is 'nothing'? What remains when you take all the matter away? Can empty space - a void - exist? This Very Short Introduction explores the science and the history of the elusive void: from Aristotle who insisted that the vacuum was impossible, via the theories of Newton and Einstein, to our very latest discoveries and why they can tell us extraordinary things about the cosmos.

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This Very Short Introduction explores the science and the history of the elusive void: from Aristotle who insisted that the vacuum was impossible, via the theories of Newton and Einstein, to our very latest discoveries and why they can tell us extraordinary things about the cosmos.

*Nothing: A Very Short Introduction : Frank Close ...*

In Particle Physics: A Very Short Introduction , best-selling author Frank Close provides a compelling and lively introduction to the fundamental particles that make up the universe. The book begins with a guide to what matter is made up of and how it evolved, and goes on to describe the fascinating and cutting-edge techniques used to study it.

*Nothing: A Very Short Introduction Audiobook | Frank Close*

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Published on May 9, 2016 Physicist and Very Short

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## Introduction

Introductions author Frank Close, tells us 10 things we should know about nothing. <https://global.oup.com/academic/produ...>

Frank Close, Professor...

### *Nothing: A Very Short Introduction | Frank Close*

This Very Short Introduction explores the science and history of the elusive void: from Aristotle's theories to black holes and quantum particles, and why the latest discoveries about the vacuum tell us extraordinary things about the cosmos.

### *Nothing: A Very Short Introduction by Frank Close ...*

Nothing: A Very Short Introduction. by Frank Close. Very Short Introductions . Share your thoughts Complete your review. Tell readers what you thought by rating and reviewing this book. Rate it \* You Rated it \* 0. 1 Star - I hated it 2 Stars - I didn't like it 3 Stars - It was OK 4 Stars - I liked it 5 Stars - I loved it.

### *Nothing: A Very Short Introduction eBook by Frank Close ...*

This short, smart audiobook tells you everything you need to know about "nothing." What remains when you take all the matter away? Can empty space - "nothing" - exist?

An exploration of the concept of "nothing" journeys from ancient ideas and cultural traditions to the latest scientific research, discussing the history of the vacuum, theories on the nature of time and space, and other discoveries.

What is 'nothing'? What remains when you take all the matter away? Can empty space - a void - exist? This Very Short Introduction explores the science and the history of the elusive void: from Aristotle who insisted that the vacuum was

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## Introduction

impossible, via the theories of Newton and Einstein, to our very latest discoveries and why they can tell us extraordinary things about the cosmos. Frank Close tells the story of how scientists have explored the elusive void, and the rich discoveries that they have made there. He takes the reader on a lively and accessible history through ancient ideas and cultural superstitions to the frontiers of current research. He describes how scientists discovered that the vacuum is filled with fields; how Newton, Mach, and Einstein grappled with the nature of space and time; and how the mysterious 'aether' that was long ago supposed to permeate the void may now be making a comeback with the latest research into the 'Higgs field'. We now know that the vacuum is far from being empty - it seethes with virtual particles and antiparticles that erupt spontaneously into being, and it also may contain hidden dimensions that we were previously unaware of. These new discoveries may provide answers to some of cosmology's most fundamental questions: what lies outside the universe, and, if there was once nothing, then how did the universe begin? 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.

What is 'nothing'? What remains when you take all the matter away? Can empty space - a void - exist? This Very Short Introduction explores the science and history of the elusive void: from Aristotle's theories to black holes and quantum particles, and why the latest discoveries about the vacuum tell us extraordinary things about the cosmos.

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In this compelling introduction to the fundamental particles that make up the universe, Frank Close takes us on a journey into the atom to examine known particles such as quarks, electrons, and the ghostly neutrino. Along the way he provides fascinating insights into how discoveries in particle physics have actually been made, and discusses how our picture of the world has been radically revised in the light of these developments. He concludes by looking ahead to new ideas about the mystery of antimatter, the number of dimensions that there might be in the universe, and to what the next 50 years of research might reveal. 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.

Quantum Theory is the most revolutionary discovery in physics since Newton. This book gives a lucid, exciting, and accessible account of the surprising and counterintuitive ideas that shape our understanding of the sub-atomic world. It does not disguise the problems of interpretation that still remain unsettled 75 years after the initial discoveries. The main text makes no use of equations, but there is a Mathematical Appendix for those desiring stronger fare. Uncertainty, probabilistic physics, complementarity, the problematic character of measurement, and decoherence are among the many topics discussed. 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

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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.

Nuclear physics began long before the identification of fundamental particles, with J. J. Thomson's discovery of the electron at the end of the 19th century, which implied the existence of a positive charge in the atom to make it neutral. In this Very Short Introduction Frank Close gives an account of how this area of physics has progressed, including the recognition of how heavy nuclei are built up in the cores of stars and in supernovae, the identification of quarks and



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gluons, and the development of quantum chromodynamics (QCD). Exploring key concepts such as the stability of different configurations of protons and neutrons in nuclei, Frank Close shows how nuclear physics brings the physics of the stars to Earth and provides us with important applications, particularly in medicine. 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.

This Very Short Introduction deals with the social life of language, presenting a succinct account of the most important aspects - both "micro" and "macro" - of sociolinguistics, such as language variation, language attitudes, and the relationship between language and identity.

Happiness is an everyday term in our lives, and most of us strive to be happy. But defining happiness can be difficult. In this Very Short Introduction, Dan Haybron considers the true nature of happiness. By examining what it is, assessing its importance in our lives, and how we can (and should) pursue it, he considers the current thinking on happiness, from psychology to philosophy. Illustrating the diverse routes to happiness, Haybron reflects on contemporary ideas about the pursuit of a good life and considers the influence of social context on our satisfaction and well-being. 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

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enthusiasm to make interesting and challenging topics highly readable.

Metaphysics is one of the traditional four main branches of philosophy, alongside ethics, logic and epistemology. It is also an area that continues to attract and hold a fascination for many people yet it is associated with being complex and abstract. For some it is associated with the mystical or religious. For others it is known through the metaphysical poets who talk of love and spirituality. This Very Short Introduction goes right to the heart of the matter, getting to the basic and most important questions of metaphysical thought in order to understand the theory: What are objects? Do colours and shapes have some form of existence? What is it for one thing to cause another rather than just being associated with it? What is possible? Does time pass? By using these questions to initiate thought about the basic issues around substance, properties, changes, causes, possibilities, time, personal identity, nothingness and emergentism, Stephen Mumford provides a clear and simple path through this analytical tradition at the core of philosophical thought. 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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