

Engineering A Very Short Introduction Very Short Introductions

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 Physics: A Very Short Introduction
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 Introduction to Chemical Engineering
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MCDANIEL MACIAS

Renewable Energy: a Very Short Introduction Oxford University Press, USA
 Robotics is a key technology in the modern world. Robots are a well-established part of manufacturing and warehouse automation, assembling cars or washing machines, and, for example, moving goods to and from storage racks for Internet mail order. More recently robots have taken their first steps into homes and hospitals, and seen spectacular success in planetary exploration. Yet, despite these successes, robots have failed to live up to the predictions of the 1950s and 60s, when it was widely thought - by scientists and engineers as well as the public - that by turn of the 21st century we would have intelligent robots as butlers, companions, or co-workers. This Very Short Introduction explains how it is that robotics can be both a success story and a disappointment, how robots can be both ordinary and remarkable, and looks at their important developments in science and their applications to everyday life. 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.

Civil Engineering: A Very Short Introduction PHI Learning Pvt. Ltd.

Engineering is part of almost everything we do - from the water we drink and the food we eat, to the buildings we live in and the roads and railways we travel on. This book explores the nature and practice of engineering, its history, its scope, and its relationship with art, science and technology. *Management: A Very Short Introduction* Oxford University Press

The war instinct is part of human nature, but the means to fight war depend on technology. Alex Roland traces the co-evolution of technology and warfare from the Stone Age to the age of cyberwar, describing the inventions that changed the direction of warfare throughout history: from fortified walls, the chariot, battleships, and the gunpowder revolution to bombers, rockets, improvised explosive devices (IEDs), and nuclear weapons. In the twenty-first century, new technologies continue to push warfare in unexpected directions, while warfare stimulates stunning

new technological advances. Yet even now, the newest and best technology cannot guarantee victory. Brimming with dramatic narratives of battles and deep insights into military psychology, this book shows that although military technologies keep changing at great speed, the principles and patterns behind them abide.

Complexity Oxford University Press

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.

Microbiology: A Very Short Introduction Oxford University Press

Specifically designed as an introduction to the exciting world of engineering, **ENGINEERING FUNDAMENTALS: AN INTRODUCTION TO ENGINEERING** encourages students to become engineers and prepares them with a solid foundation in the fundamental principles and physical laws. The book begins with a discovery of what engineers do as well as an inside look into the various areas of specialization. An explanation on good study habits and what it takes to succeed is included as

well as an introduction to design and problem solving, communication, and ethics. Once this foundation is established, the book moves on to the basic physical concepts and laws that students will encounter regularly. The framework of this text teaches students that engineers apply physical and chemical laws and principles as well as mathematics to design, test, and supervise the production of millions of parts, products, and services that people use every day. By gaining problem solving skills and an understanding of fundamental principles, students are on their way to becoming analytical, detail-oriented, and creative engineers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Numbers: A Very Short Introduction Oxford University Press

Very Short Introductions: Brilliant, Sharp, Inspiring Philosophy of physics is concerned with the deepest theories of modern physics - notably quantum theory, our theories of space, time and symmetry, and thermal physics - and their strange, even bizarre conceptual implications. A deeper understanding of these theories helps both physics, through pointing the way to new theories and new applications, and philosophy, through seeing how our worldview has to change in the light of what we learn from physics. This Very Short Introduction explores the core topics in philosophy of physics through three key themes. The first - the nature of space, time, and motion - begins by considering the philosophical puzzles that led Isaac Newton to propose the existence of absolute space, and then discusses how those puzzles change - but do not disappear - in the context of the revolutions in our understanding of space and time that came first from special, and then from general, relativity. The second - the emergence of irreversible behavior in statistical mechanics - considers how the microscopic laws of physics, which know of no distinction between past and future, can be compatible with the melting of ice, the cooling of coffee, the passing of youth, and all the other ways in which the large-scale world distinguishes past from future. The last section discusses quantum theory - the foundation of most of modern physics, yet mysterious to this day. It explains just why quantum theory is so difficult to make sense of, how we might nonetheless attempt to do it, and why the question has been highly relevant to the development of physics, and continues to be so. 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.

Earth System Science: A Very Short Introduction Oxford University Press, USA

Using examples from around the world, including the Shard in London and jumbo jets like the A380, David Blockley explores the world of structural engineering. This Very Short Introduction considers the crucial role structural engineering has on issues such as cost and energy efficiency to long-term sustainability and safety.

Navigation Oxford University Press

Discusses the importance of civil engineering in the history of civilization, explores problems civil engineers face each day, and outlines some modern accomplishments in the field.

Computer Science: A Very Short Introduction Oxford University Press

Bridges are remarkable structures. Often vast, immense, and sometimes beautiful, they can be icons of cities. David Blockley explains how to read a bridge, how they stand up, and how engineers design them to be so strong. He examines the engineering problems posed by bridges, and considers their cultural, aesthetic, and historical importance.

Modern Architecture OUP Oxford

This book will transform the way you think about design by showing how integral it is to our daily lives, from the spoon we use to eat our breakfast cereal to the medical equipment used to save lives. John Heskett goes beyond style and taste to look at how different cultures and individuals personalise objects.

Engineering: A Very Short Introduction Oxford University Press, USA

In recent decades we have come to realize that the microbial world is hugely diverse, and can be found in the most extreme environments. Fungi, single-celled protists, bacteria, archaea, and the vast array of viruses and sub-viral particles far outnumber plants and animals. Microbes, we now know, play a critical role in ecosystems, in the chemistry of atmosphere and oceans, and within our bodies. The field of microbiology, armed with new techniques from molecular biology, is now one of the most vibrant in the life sciences. In this Very Short Introduction Nicholas P. Money explores not only the traditional methods of microscopy and laboratory culture but also the modern

techniques of genetic detection and DNA sequencing, genomic analysis, and genetic manipulation. In turn he demonstrates how advances in microbiology have had a tremendous impact on the areas of medicine, agriculture, and biotechnology. 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.

A Very Short Introduction Oxford University Press

Energy is vital for a good standard of living, and much of the world's population does not have enough. Affordable and adequate sources of power that do not cause climate change or pollution are crucial; and renewables provide the answer. Wind and solar farms can now provide the cheapest electricity in many parts of the world. Moreover, they could provide all of the world's energy needs. But while market forces are fast helping the transition from fossil fuels to renewables, there are opposing pressures, such as the USA's proposed withdrawal from the Paris Agreement, and the vested interests in fossil fuels. This Very Short Introduction describes the main renewable sources of energy- solar, wind, hydropower, and biomass- as well as the less well-developed ones- geothermal, tidal, and wave. Nick Jelley explains the challenges of integrating renewables into electricity grids, and the need for energy storage and for clean heat; and discusses the opportunities in developing countries for renewable energy to empower millions. He also considers international efforts and policies to support renewables and tackle climate change; and explains recent innovations in wind and solar energy production, battery storage, and in the emerging power-to-gas provision for clean heating. Throughout, he emphasises what renewable energy can deliver, and its importance in tackling climate change, and in improving health, welfare, and access to electricity. 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 Science and Art of the World's Most Inspiring Structures Oxford University Press

This text serves as both a textbook and a professional guide. It addresses all aspects of education and professional preparation for civil engineers, beginning with major technical areas and attributes and concluding with hiring opportunities.

Design: A Very Short Introduction Oxford University Press

Physics, the fundamental science of matter and energy, encompasses all levels of nature from the subatomic to the cosmic, and underlies much of the technology around us. Understanding the physics of our universe is an essential aspect of humanity's quest to understand our environment and our place within it. Doing physics enables us to explore the interaction between environment and human society, and can help us to work towards the future sustainability of the planet. This Very Short Introduction provides an overview of how this pervasive science came to be and how it works: who funds it, how physicists are trained and how they think, and how physics supports the technology we all use. Sidney Perkowitz presents the theories and outcomes of pure and applied physics from ideas of the Greek natural philosophers to modern quantum mechanics, cosmology, digital electronics and energy production. Considering its most consequential experiments, including recent results in elementary particles, gravitational waves and materials science, he also discusses outside the lab, the effects of physics on society, culture, and humanity's vision of its place in the universe. 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.

Structural Engineering Oxford University Press

What is time? What does it mean for time to pass? Is it possible to travel in time? What is the difference between the past and future? Until the work of Newton, these questions were purely topics of philosophical speculation. Since then we've learned a great deal about time, and its study has moved from a subject of philosophical reflection to instead became part of the subject matter of physics. This Very Short Introduction introduces readers to the current physical understanding of the direction of time, from the Second Law of Thermodynamics to the emergence of complexity and life. Jenann Ismael charts the line of development in physical theory from Newton, via

Einstein's Theory of Relativity, to the current day. Einstein's innovations led to a vision of time very different from the familiar time of everyday sense. In this new vision, time is one of the dimensions in which the universe is extended alongside the spatial dimensions. The universe appears as a static block of events, in which there is no more a difference between past and future than there is between east and west. Discussing the controversy and philosophical confusion which surrounded the reception of this new vision, Ismael also covers the contemporary mixture of statistical mechanics, cognitive science, and phenomenology that point the way to reconciling the familiar time of everyday sense with the vision of time presented in Einstein's theories. Very Short Introductions: Brilliant, Sharp, Inspiring 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.

Teeth: A Very Short Introduction OUP Oxford

In this Very Short Introduction, John Holland presents an introduction to the science of complexity. Using examples from biology and economics, he shows how complexity science models the behaviour of complex systems.

Applied Mathematics: A Very Short Introduction Oxford University Press

Have you ever wondered how it's possible to build a skyscraper, a big bridge, a jumbo jet, or a cruise liner? Everything has structure. Structure is the difference between a random pile of components and a fully functional object. Through structure the parts connect to make the whole. Natural structures vary from the very smallest part of an atom to the entire cosmology of the universe. Man-made structures include buildings, bridges, dams, ships, aeroplanes, rockets, trains, cars and fair-ground rides and all forms of artefacts, even large artistic sculptures. The wide range of different industries in which structural engineers work includes construction, transport, manufacturing, and aerospace. In this Very Short Introduction, David Blockley explores, in non-technical language, what structural engineering is all about, including examples ranging from the Shard in London and the Golden Gate Bridge in San Francisco to jumbo jets like the A380 and the Queen Elizabeth cruise liner. 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.

Agriculture: A Very Short Introduction Oxford University Press

Teeth are a vital component of vertebrate anatomy and a fundamental part of the fossil record. It was the evolution of teeth, associated with predation, that drove the evolution of the wide array of fish, amphibians, reptiles, and then mammals. Peter S. Ungar looks at how, without teeth, none of these developments could have occurred.

The Computer: A Very Short Introduction Oxford University Press

Systems biology came about as growing numbers of engineers and scientists from other fields created algorithms which supported the analysis of biological data in incredible quantities. Whereas biologists of the past had been forced to study one item or aspect at a time, due to technical and biological limitations, it suddenly became possible to study biological phenomena within their natural contexts. This interdisciplinary field offers a holistic approach to interpreting these processes, and has been responsible for some of the most important developments in the science of human health and environmental sustainability. This Very Short Introduction outlines the exciting processes and possibilities in the new field of systems biology. Eberhard O. Voit describes how it enabled us to learn how intricately the expression of every gene is controlled, how signaling systems keep organisms running smoothly, and how complicated even the simplest cells are. He explores what this field is about, why it is needed, and how it will affect our understanding of life, particularly in the areas of personalized medicine, drug development, food and energy production, and sustainable stewardship of our environments. Throughout he considers how new tools are being provided from the fields of mathematics, computer science, engineering, physics, and chemistry to grasp the complexity of the countless interacting processes in cells which would overwhelm the cognitive and analytical capabilities of the human mind. 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

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Nuclear Power: A Very Short Introduction Oxford University Press

Mottier examines the questions around what shapes our sexuality asking if it is a product of our

genes, or of society, culture or politics. The changing views of sexual norms are dealt with as are issues surrounding feminism, religion, eugenics, and HIV / AIDS.

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