

Engineering A Very Short Introduction Very Short Introductions

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In this Very Short Introduction, David Blockley explores the nature and practice of engineering--its history, its scope, and its relationship with art, craft, science, and technology. He begins with its early roots, ranging from Archimedes to some of the great figures of engineering such as Brunel and Marconi, right up to the modern day, describing the five ages of engineering--gravity, heat, electromagnetism, information, and systems--and showing how they relate to one another.

Engineering: A Very Short Introduction: Blockley, David ...

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. In this Very Short Introduction, David Blockley explores the nature and practice of engineering, its history, its scope, and its relationship with art, craft, science, and technology.

Engineering: A Very Short Introduction (Very Short ...

In "Engineering: A Very Short Introduction" David Blockley tries to answer that questio It's impossible to imagine the modern life without all the products, constructions, tools, systems, and myriad other objects and utilities that have been developed and constructed through the all-encompassing activity that we refer to as engineering.

Engineering: A Very Short Introduction by David Blockley

Engineering: A Very Short Introduction explores the nature and practice of engineering, its history, its scope, and its relationship with art, craft, science, and technology. It considers the role of engineering in the modern world, demonstrating its need to provide both practical and socially acceptable solutions, and explores how engineers use natural phenomena to embrace human needs.

Engineering: A Very Short Introduction - Very Short ...

In this Very Short Introduction, David Blockley explores the nature and practice of engineering, its history, its scope, and its relationship with art, craft, science, and technology. He considers...

Engineering: A Very Short Introduction - David Blockley ...

Very Short Introductions Examines the role and identity of engineering in comparison with science, technology, art, and craft Defines the five ages of engineering - gravity, heat, electromagnetism, information, and systems - in order to show how the specialisms relate to one another

Engineering: A Very Short Introduction - David Blockley ...

Civil engineering has made an inestimable contribution to modern life, providing the crucial expertise behind our vast transportation systems and the wide array of built structures where we work, study, and play. In this Very Short Introduction, engineer David Muir Wood turns a spotlight on a field that we often take for granted. He sheds light on the nature and importance of civil engineering in the history of civilization and urbanization, outlines its many accomplishments in the modern ...

Civil Engineering: A Very Short Introduction (Very Short ...

The first thing to say about "Engineering: A Very Short Introduction" is that the title is something of a misnomer. It is actually a very short HISTORY of that subject. (In, say, philosophy, this would be more understandable; no one "does philosophy" today.

Amazon.com: Customer reviews: Engineering: A Very Short ...

Civil Engineering: A Very Short Introduction examines the nature and importance of civil engineering in the history of civilization and urbanization. This VSI sets out the problems that civil engineers need to solve and the science and technology that has enabled engineers to build bridges, tunnels, houses and buildings for all aspects of life.

Civil Engineering: A Very Short Introduction - Very Short ...

In this Very Short Introduction, David Blockley explores the nature and practice of engineering, its history, its scope, and its relationship with art, craft, science, and technology. He considers the role of engineering in the modern world, demonstrating its need to provide both practical and socially acceptable solutions, and explores how engineers use natural phenomena to embrace human needs.

Engineering: A Very Short Introduction (Very Short ...

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.

Structural Engineering: A Very Short Introduction (Very ...

Oxford's Very Short Introductions series offers concise and original introductions to a wide range of subjects -- from Islam to Sociology, Politics to Classics, and Literary Theory to History. Not simply a textbook of definitions, each volume provides trenchant and provocative - yet always balanced - discussions of the central issues in a given ...

Very Short Introductions - Oxford University Press

Civil Engineering: A Very Short Introduction gives a brief yet broad explanation about civil engineering field. It talks about how civil engineering is called by the name, the type of materials used, application of civil engineering knowledge, robustness of a structure, and lastly the future of civil engineering.

Civil Engineering: A Very Short Introduction by David Muir ...

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2. How the EU was made - Very Short Introductions

In this Very Short Introduction, engineer David Muir Wood turns a spotlight on a field that we often take for granted. He sheds light on the nature and importance of civil engineering in the history of civilization and urbanization, outlines its many accomplishments in the modern era, and points to the hurdles that civil engineering will face in the future.

Civil Engineering: A Very Short Introduction by David Muir ...

ACM SIGSOFT SOFTWARE ENGINEERING NOTES, Vol 6 No 3, July 1981 Page 6 0 pp . 118-128 . Constable, R .L . and D . Zlatin, Report on the PL/CV3 Verification System, TR 81-454, Department of Computer Science, Cornell I University, January 1981 . Constable, R .L ., S .D . Johnson, and C .D . Eichenlaub, Introduction to the PL/CV2 Programming Logic, Department of Compute r Science, Cornell University ...

An untitled Canada goose. ACM SIGSOFT Software Engineering ...

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Very Short Introductions - discover VSIs from Oxford now ...

Civil engineering has made an inestimable contribution to modern life, providing the crucial expertise behind our vast transportation systems and the wide array of built structures where we work, study, and play. In this Very Short Introduction, engineer David Muir Wood turns a spotlight on a field that we often take for granted.

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.

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.

Descripción del editor: "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" (Oxford University Press).

Civil engineering produces the structures of all human settlements worldwide and is a vital discipline for many aspects modern life, underlying housing, transport, and our major areas and buildings related to work, study, and leisure. In this Very Short Introduction, David Muir Wood demonstrates the nature and importance of civil engineering not only in the history of civilization and urbanization, but its range of facets today, and its challenges for the future. Beginning with the challenge of creating a settlement on a deserted island, which sets out the problems that civil engineers need to solve, he looks at the social and environmental considerations as well as the science, technology, and craft of building bridges, tunnels, houses, and areas of recreation. He highlights the lives of some major civil engineers, including Brunel and Bazalgette, considers the challenges of managing water and energy, and looks at our increasing sensitivity to building and the environment. 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.

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.

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.

Following the increasing cost of fossil fuels and concerns about the security of their future supply. However, the term 'nuclear power' causes anxiety in many people and there is confusion concerning the nature and extent of the associated risks.

The study of materials is a major field of research that supports and drives innovation in technology. Using modern scientific techniques, materials scientists and engineers explore and manipulate materials, and create new ones with remarkable strength and extraordinary optical and electrical properties. In this Very Short Introduction, Christopher Hall looks at a wide range of materials, from steel, wood, and rubber, to gold, silicon, and graphene, describing how materials are used, how their properties arise from their internal structure, and how useful and novel things are made from them. He concludes by looking at how the global scale of materials consumption now threatens the goal of sustainability. 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.

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.

Over the past sixty years, the spectacular growth of the technologies associated with the computer is visible for all to see and experience. Yet, the science underpinning this technology is less visible and little understood outside the professional computer science community. As a scientific discipline, computer science stands alongside the likes of molecular biology and cognitive science as one of the most significant new sciences of the post Second World War era. In this Very Short Introduction, Subrata Dasgupta sheds light on these lesser known areas and considers the conceptual basis of computer science. Discussing algorithms, programming, and sequential and parallel processing, he considers emerging modern ideas such as biological computing and cognitive modelling, challenging the idea of computer science as a science of the artificial. 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.