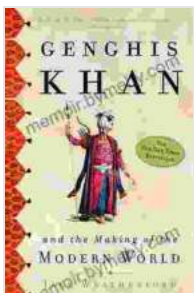


Making the Modern World: Materials and Dematerialization

Materials are the foundation of our modern world. They are the building blocks of everything from our homes to our cars to our computers. But what are materials, and how have they shaped our world?

In this book, materials scientist Mark Miodownik explores the role of materials in shaping the modern world. He traces the history of materials science from its earliest beginnings to the present day, and he looks at the ways in which materials have enabled us to achieve some of our greatest technological advances.



Making the Modern World: Materials and Dematerialization by Vaclav Smil

★★★★☆ 4.3 out of 5

Language	: English
File size	: 1360 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Word Wise	: Enabled
Print length	: 243 pages
Lending	: Enabled



Miodownik also examines the environmental impact of materials production and use. He argues that we need to find more sustainable ways to produce and use materials if we want to create a more sustainable world.

The History of Materials Science

The history of materials science is closely intertwined with the history of human civilization. The earliest humans used natural materials such as stone, wood, and bone to make tools and weapons. As humans developed, they began to learn how to extract and process metals, which led to the development of new technologies and the rise of civilization.

The Industrial Revolution marked a major turning point in the history of materials science. During this time, new methods were developed for producing and processing materials, which led to the development of new products and industries.

In the 20th century, materials science underwent a rapid expansion. New materials such as plastics, semiconductors, and composites were developed, which led to the development of new technologies and products.

The Role of Materials in the Modern World

Materials play a vital role in the modern world. They are used in everything from our homes to our cars to our computers. Materials also play a critical role in the development of new technologies, such as renewable energy and medical devices.

The properties of materials determine their suitability for different applications. For example, metals are strong and durable, which makes them ideal for use in construction and transportation. Plastics are lightweight and inexpensive, which makes them ideal for use in packaging and consumer products.

The Environmental Impact of Materials Production and Use

The production and use of materials has a significant environmental impact. The mining and processing of materials can lead to air and water pollution, and the disposal of materials can lead to land pollution.

The environmental impact of materials production and use is a growing concern. We need to find more sustainable ways to produce and use materials if we want to create a more sustainable world.

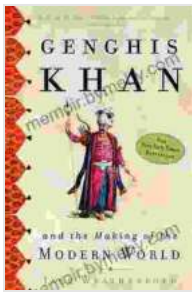
Materials are essential to the modern world. They are the building blocks of everything from our homes to our cars to our computers. But the production and use of materials has a significant environmental impact. We need to find more sustainable ways to produce and use materials if we want to create a more sustainable world.

Making the Modern World: Materials and Dematerialization is a comprehensive and engaging exploration of the role of materials in shaping the modern world. This book is essential reading for anyone interested in the history, present, and future of materials science.

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Images for alt attributes

| Image | Alt attribute | |---|---| | Photo of a book | Making the Modern World: Materials and Dematerialization | | Photo of a person working in a laboratory | Materials scientist Mark Miodownik | | Photo of a factory | Materials production | | Photo of a landfill | Environmental impact of materials production and use |



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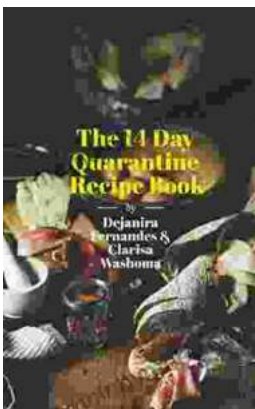
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