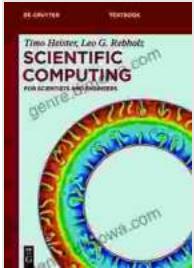


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Scientific Computing: For Scientists and Engineers (De Gruyter Textbook)



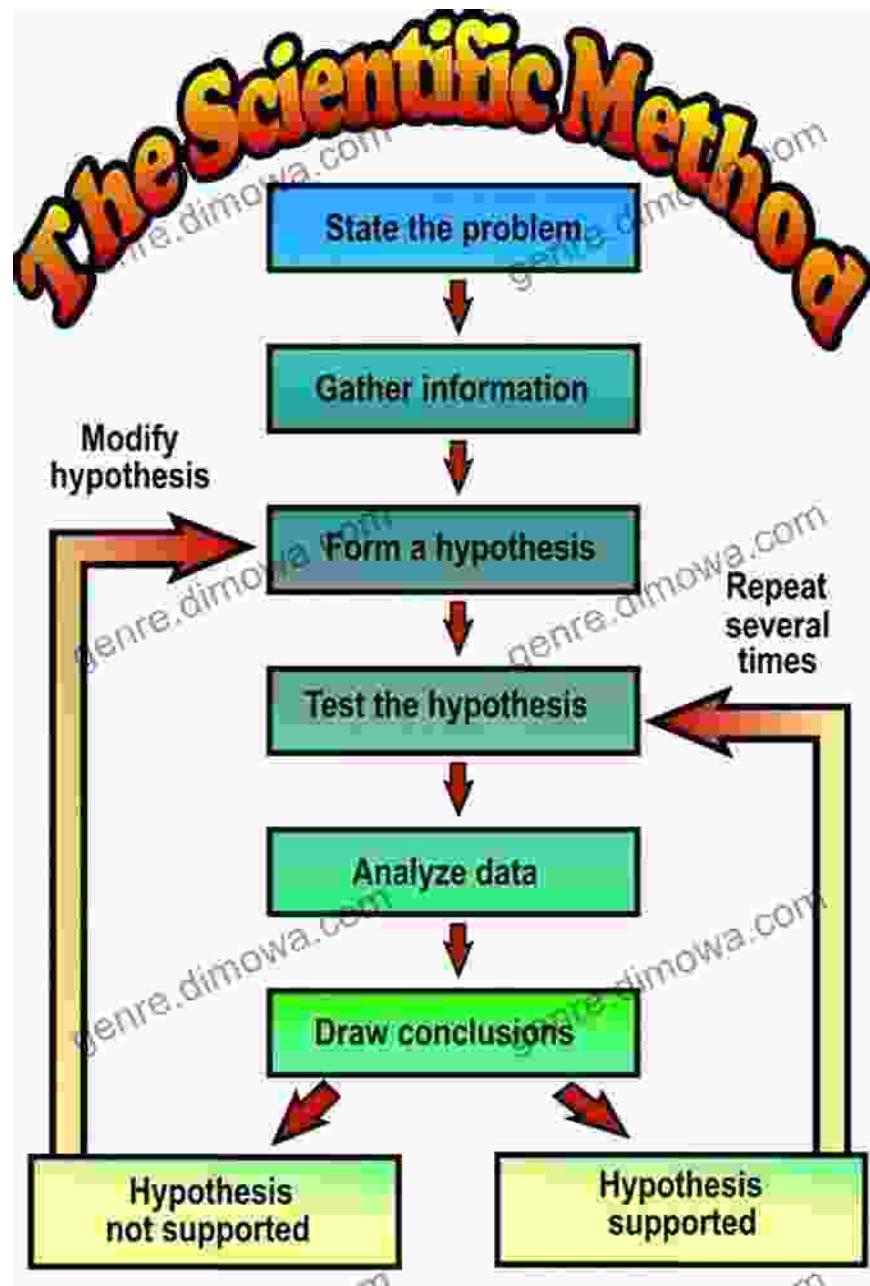
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Language : English
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Text-to-Speech : Enabled
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Chapter 1: The Foundations of Science and Engineering

This foundational chapter sets the stage for the rest of the book, laying the groundwork for a comprehensive understanding of science and engineering. It delves into the scientific method, the nature of scientific inquiry, and the role of mathematics as the language of science.



Chapter 2: Mechanics

Embark on a journey into the world of mechanics, the study of motion and forces. This chapter explores the laws of motion, energy conservation, and momentum. It provides a deep understanding of the fundamental principles that govern the physical world.

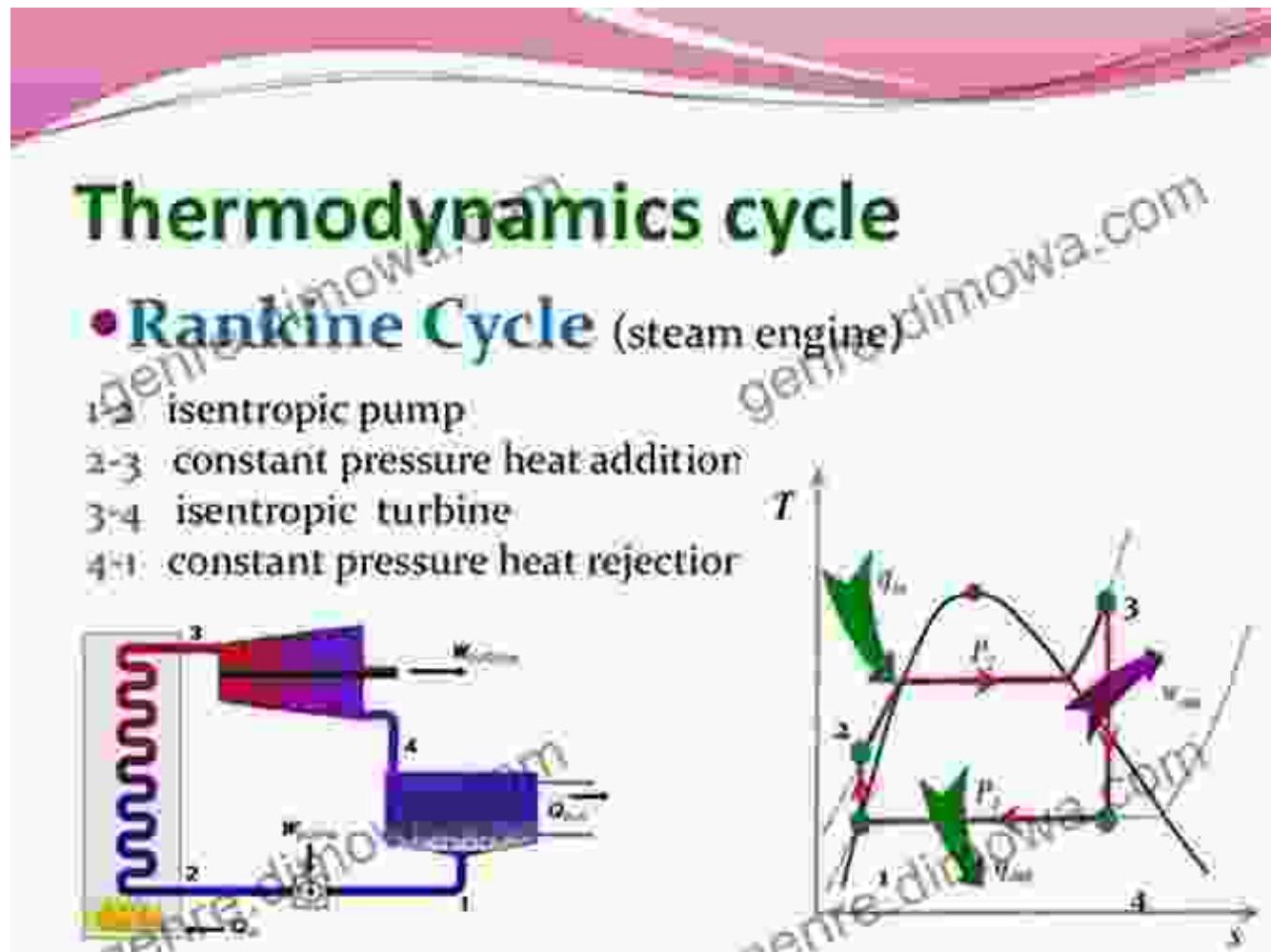


Figure 2: A depiction of Newton's laws of motion.

Chapter 3: Thermodynamics

Unravel the mysteries of thermodynamics, the study of energy and its transformations. This chapter examines the laws of thermodynamics, heat

transfer, and entropy. It provides a solid foundation for understanding the behavior of systems in equilibrium and non-equilibrium conditions.



Chapter 4: Electromagnetism

Delve into the fascinating realms of electromagnetism, the study of electric and magnetic fields. This chapter explores the fundamental laws of electromagnetism, Maxwell's equations, and the interaction of electromagnetic fields with matter.

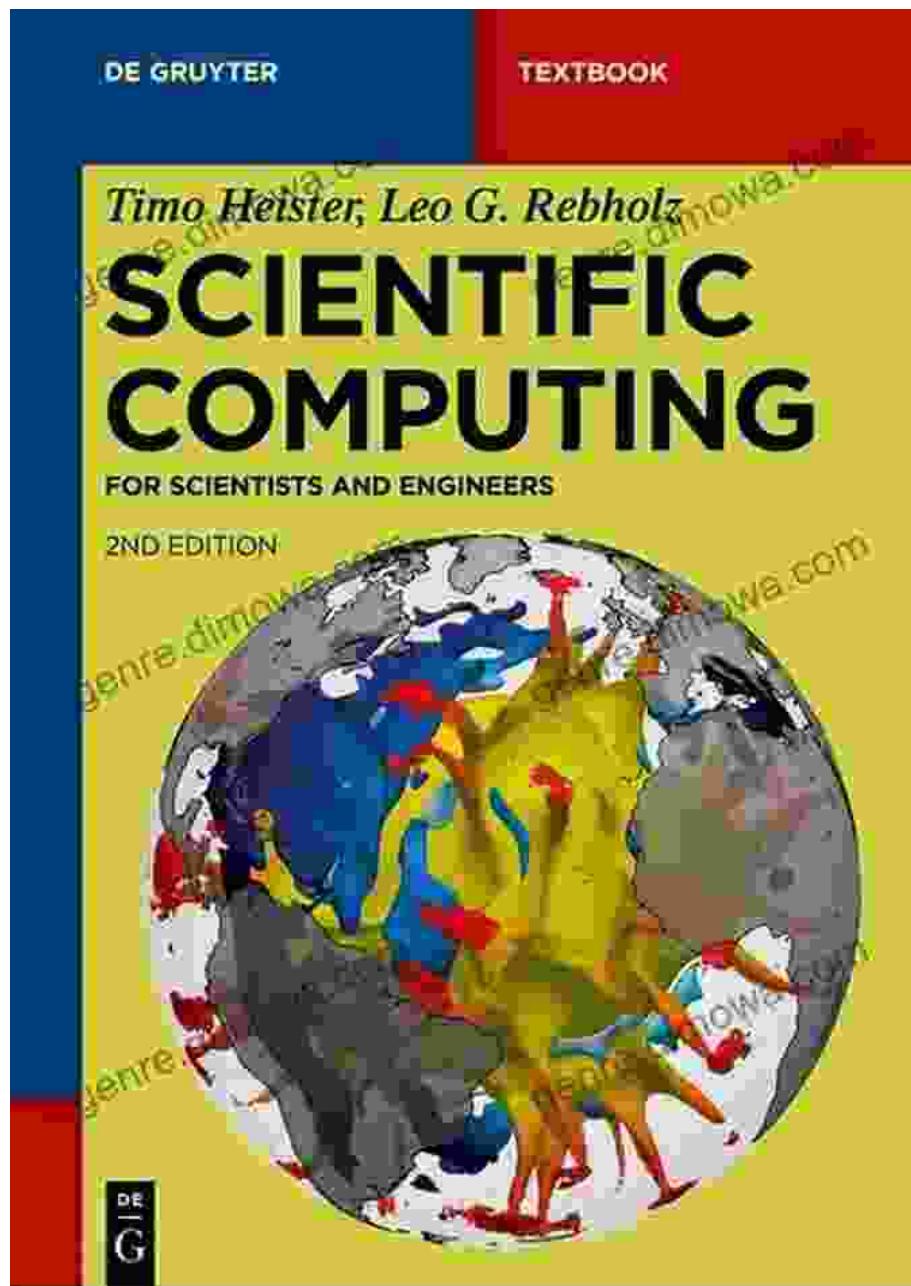
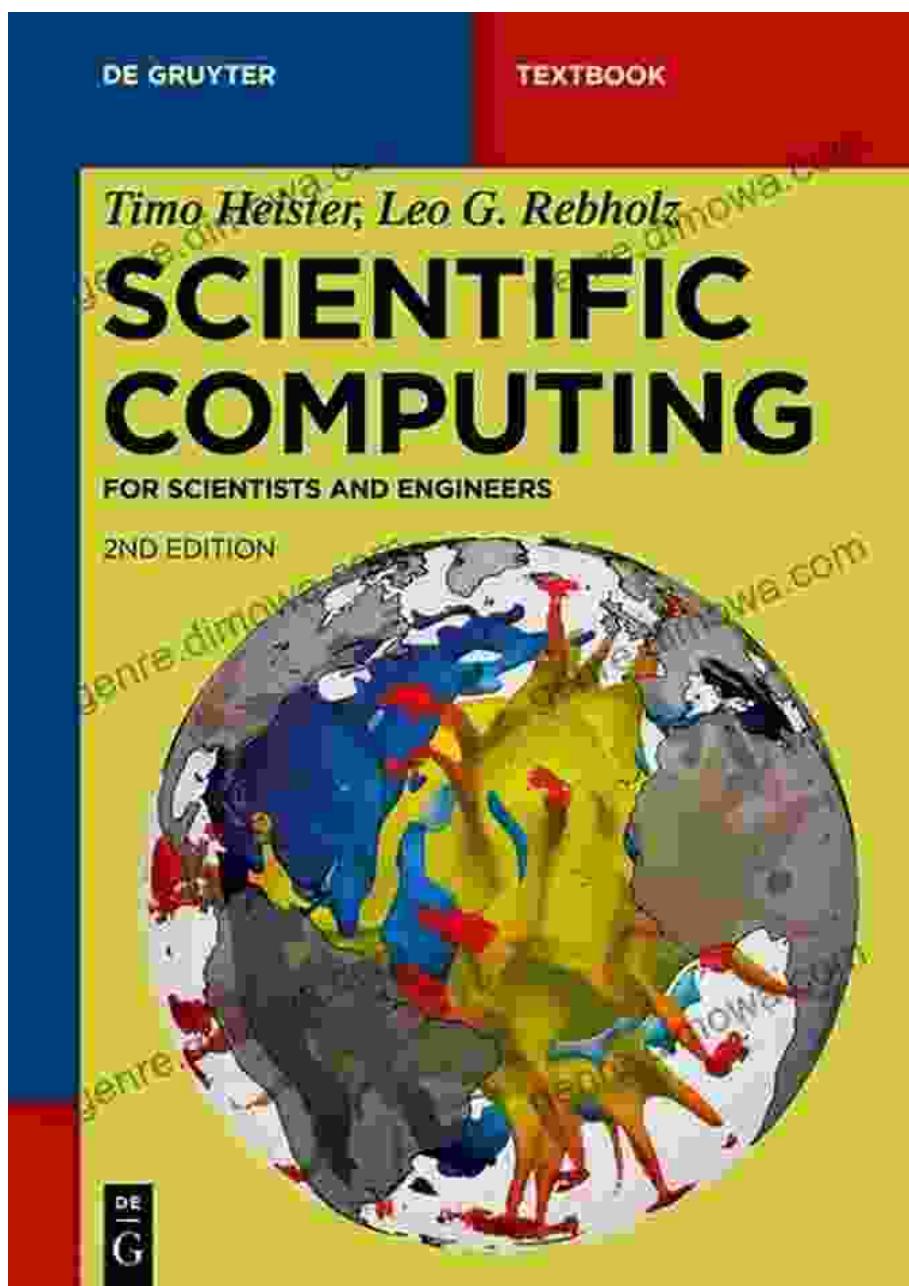


Figure 4: The electromagnetic spectrum, ranging from radio waves to gamma rays.

Chapter 5: Quantum Mechanics

Prepare to transcend the boundaries of classical physics as you enter the realm of quantum mechanics. This chapter delves into the wave-particle

duality of matter, the uncertainty principle, and the Schrödinger equation. It unravels the enigmatic world of quantum phenomena.



Chapter 6: Materials Science

Uncover the secrets of materials science, the study of the structure, properties, and applications of materials. This chapter explores the different

types of materials, their mechanical, electrical, and thermal properties, and their use in engineering applications.

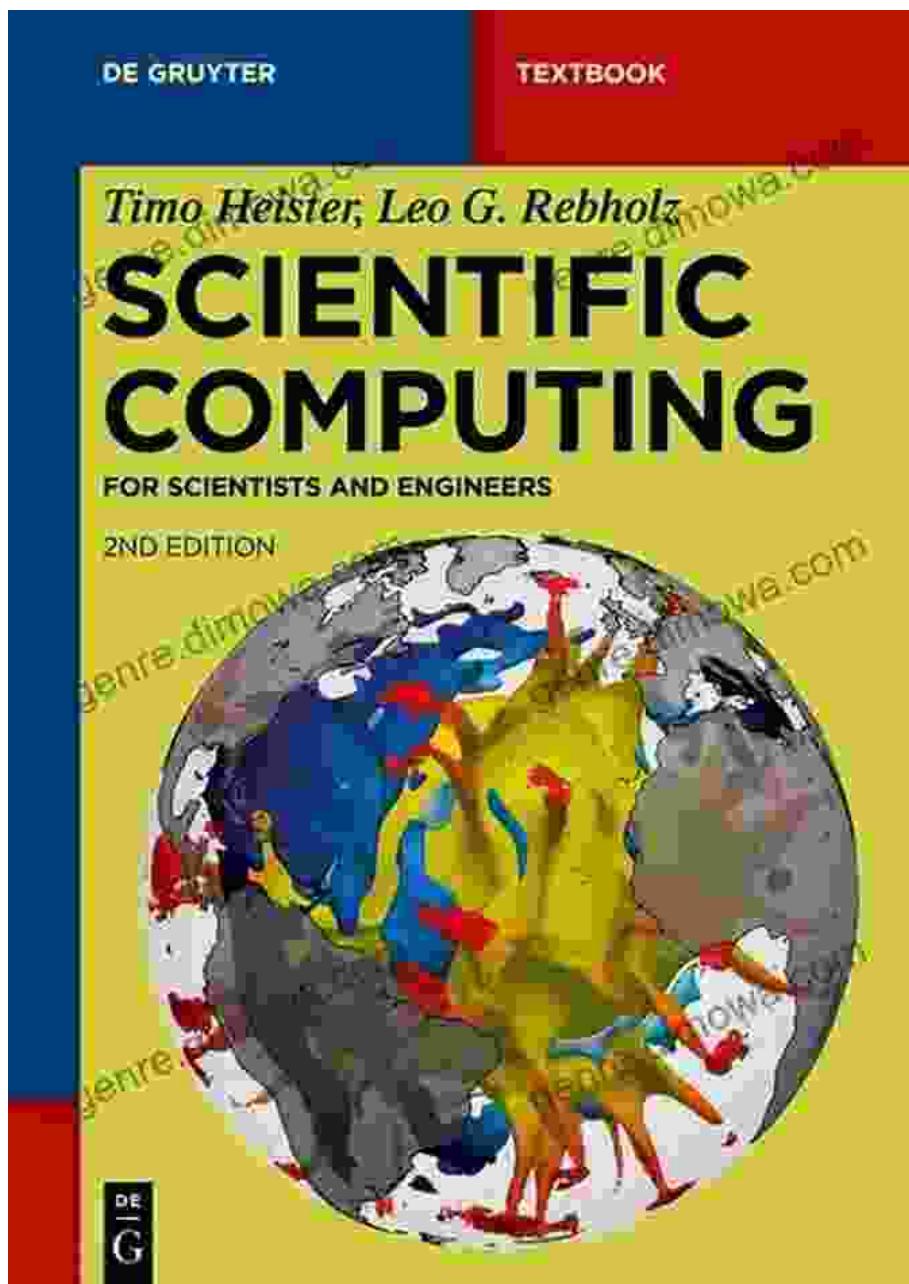
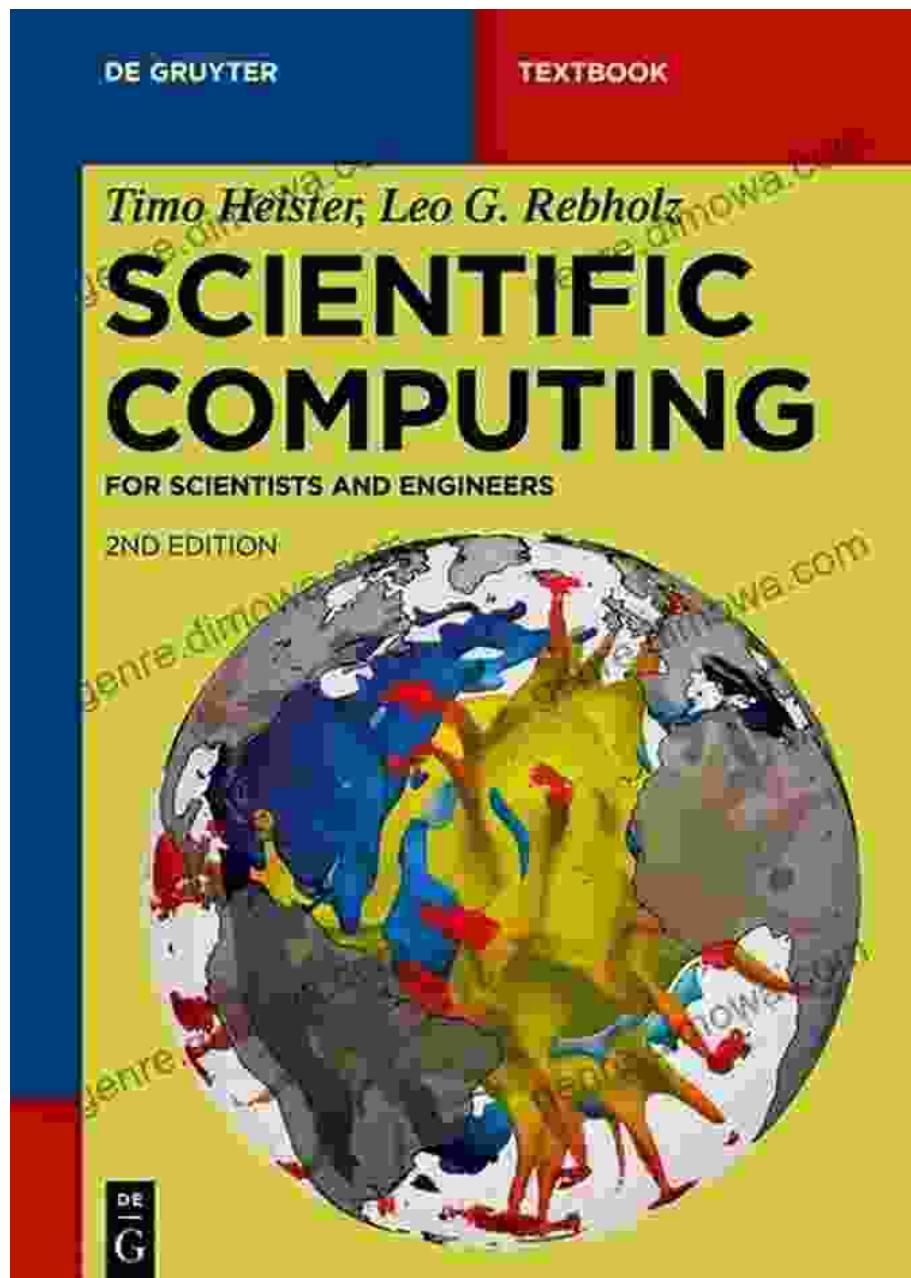


Figure 6: Researchers conducting materials science experiments.

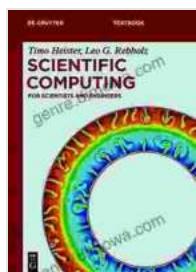
Chapter 7: Computer Science

In today's digital age, computer science plays a pivotal role in scientific and engineering endeavors. This chapter provides a comprehensive introduction to computer science concepts, including algorithms, data structures, and software engineering.



"For Scientists and Engineers" by De Gruyter is an invaluable resource for anyone seeking to deepen their understanding of the fundamental

principles that govern science and engineering. Its comprehensive coverage, clear explanations, and insightful examples make it an indispensable companion for students, researchers, and professionals alike. By delving into this treasure trove of knowledge, you will unlock the secrets of the scientific and engineering world, empowering you to make groundbreaking discoveries and drive innovation.



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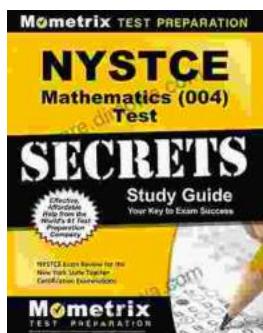
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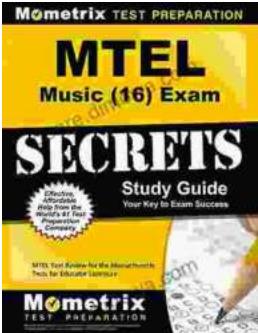
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