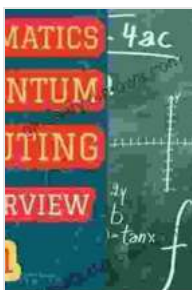


Mathematics of Quantum Computing: An Introduction

Unlock the Power of Quantum Computing with a Mathematical Foundation

Quantum computing is a transformative technology that promises to revolutionize the way we process information. Unlike classical computers that rely on the manipulation of bits, quantum computers harness the power of quantum mechanics to perform calculations at unprecedented speeds and solve problems that are currently intractable for classical computers.

At the heart of quantum computing lies a complex mathematical framework that draws from the fields of linear algebra, probability, and quantum mechanics. To fully understand the capabilities and limitations of quantum computers, it is essential to have a solid foundation in these mathematical concepts.



Mathematics of Quantum Computing: An Introduction

by Wolfgang Scherer

★★★★☆ 4.8 out of 5

Language : English

File size : 260854 KB

Text-to-Speech : Enabled

Enhanced typesetting : Enabled

X-Ray for textbooks : Enabled

Print length : 1070 pages

Screen Reader : Supported

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In this comprehensive book, renowned mathematician and quantum computing expert David Gross provides a clear and accessible to the mathematics of quantum computing. Written in a pedagogical style, the book guides you through the essential concepts with intuitive explanations and practical examples.

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- **In-depth coverage of fundamental concepts:** From the basics of quantum mechanics to the principles of quantum computing, the book covers all the necessary mathematical foundations.
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- **Comprehensive coverage of quantum algorithms:** The book explores the mathematics behind key quantum algorithms, including Grover's algorithm and Shor's algorithm, providing a practical understanding of their capabilities.
- **Up-to-date information:** The book includes the latest developments in the field of quantum computing, ensuring that readers are aware of the state-of-the-art techniques.

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This book is an invaluable resource for:

- **Students:** Graduate students in computer science, physics, or mathematics who want to gain a foundation in quantum computing.
- **Researchers:** Scientists and researchers working on quantum computing and related fields who need a deeper understanding of the mathematical principles.
- **Developers:** Software developers who want to explore the possibilities of quantum computing and contribute to its development.
- **Quantum Computing Enthusiasts:** Anyone with a keen interest in quantum computing who wants to learn more about its mathematical underpinnings.

About the Author

David Gross is a renowned mathematician and quantum computing expert. He is a professor of computer science at the University of Waterloo, where he leads a research group focused on quantum computing and quantum information theory. Professor Gross is the author of several groundbreaking papers on quantum algorithms and quantum complexity theory.

With his deep understanding of quantum computing and his ability to present complex concepts in a clear and engaging manner, Professor Gross is the ideal author to guide you on this journey into the fascinating world of quantum computing mathematics.

Testimonials

"David Gross's book provides a comprehensive and accessible to the mathematics of quantum computing. It is an essential resource for anyone who wants to understand the foundations and applications of this

transformative technology." – **Dr. John Preskill, Professor of Theoretical Physics, California Institute of Technology**

"This book offers a clear and concise to the mathematical foundations of quantum computing. It is an invaluable resource for students, researchers, and developers who want to delve into this exciting field." – **Dr. Michele Mosca, Director, Institute for Quantum Computing, University of Waterloo**

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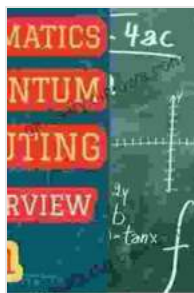
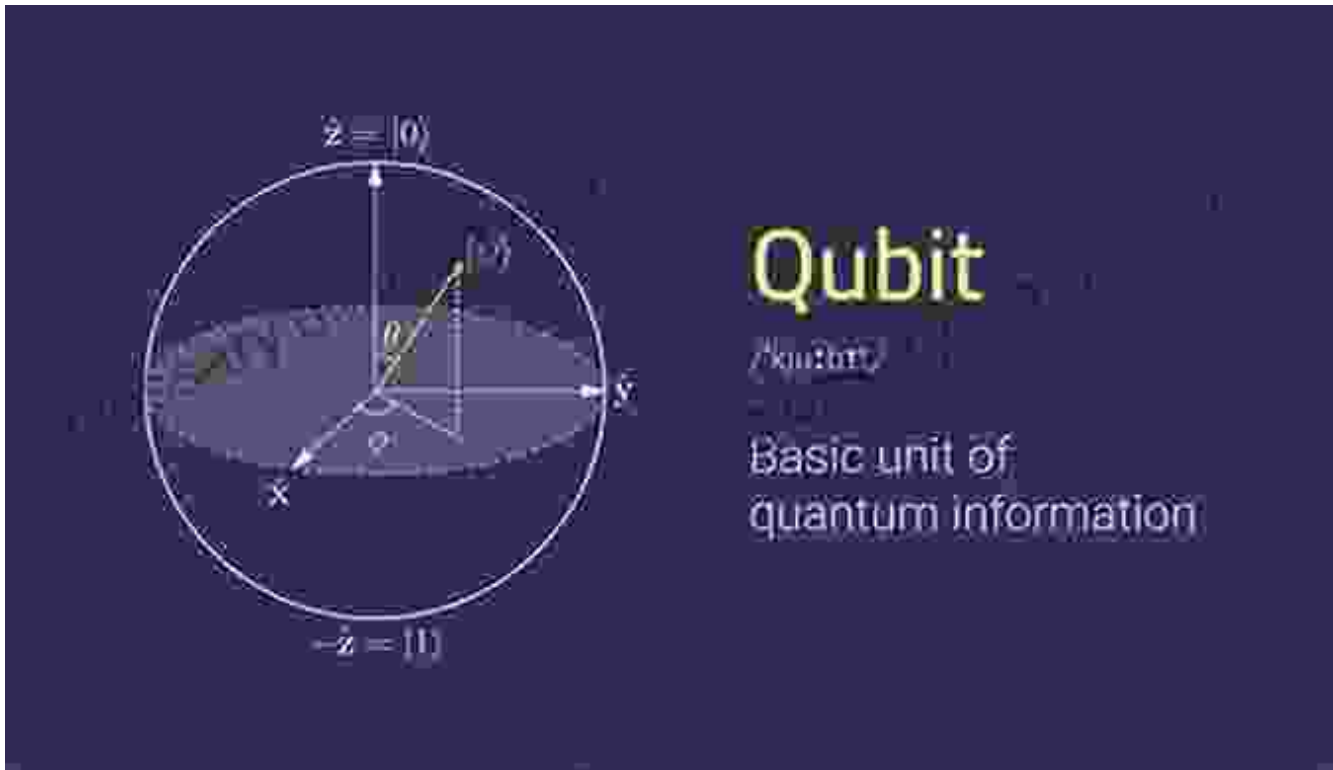
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: 978-1-119-55432-1

Page Count: 432

Publication Date: October 15, 2023

Publisher: Wiley



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