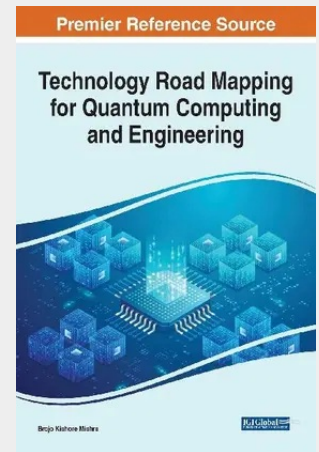


Technology Road Mapping for Quantum Computing and Engineering

Quantum computing is radically different from the conventional approach of transforming bits strings from one set of 0's and 1's to another. With quantum computing, everything changes. The physics that we use to understand bits of information and the devices that manipulate them are totally different. The way in which we build such devices is different, requiring new materials, new design rules and new processor architectures. Finally, the way we program these systems is entirely different. Quantum engineering is a revolutionary approach to quantum technology. It encompasses both fundamental physics and the broad engineering skill-set necessary to meet the practical challenges of the future. The proposed book will cover the high-quality reviewed book chapters on original research & innovations and compelling insights in Quantum Computing and Engineering. Data scientists, Engineers, Industry, researchers and students working in the field of quantum computing and its allied research will benefit greatly from this publication.

Quantum computing is radically different from the conventional approach of transforming bit-strings from one set of zeros and ones to another. With quantum computing, everything changes. The physics used to understand bits of information and the devices that manipulate them are vastly different. Quantum engineering is a revolutionary approach to quantum technology. Technology Road Mapping for Quantum Computing and Engineering explores all the aspects of quantum computing concepts, engineering, technologies, operations, and applications from the basics to future advancements. Covering topics such as machine learning, quantum software technology, and technology road mapping, this book is an excellent resource for data scientists, engineers, students and professors of higher education, computer scientists, researchers, and academicians.



250,20 €

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Lieferfrist: bis zu 10 Tage

Artikelnummer: 9781799891833

Medium: Buch

ISBN: 978-1-7998-9183-3

Verlag: Engineering Science
Reference

Erscheinungstermin: 25.03.2022

Sprache(n): Englisch

Auflage: Erscheinungsjahr 2022

Produktform: Gebunden

Gewicht: 705 g

Seiten: 300

Format (B x H): 183 x 260 mm

