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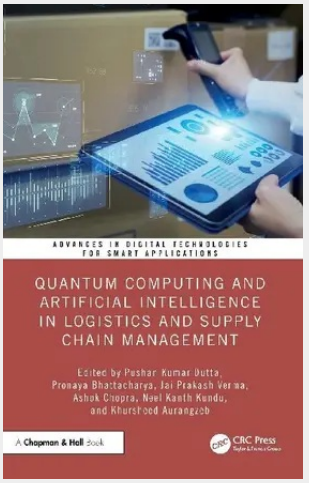
Quantum Computing and Artificial Intelligence in Logistics and Supply Chain Management



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This book discusses the transformative potential of quantum computing in reshaping the landscape of supply chain management. It bridges the gap between these two dynamic fields, offering a comprehensive guide to the application of quantum principles in supply chain operations. Through detailed examples and case studies, it highlights how quantum computing can tackle industry-specific issues, such as managing global supply chain disruptions, enhancing production schedules, and enabling real-time decision-making. This book is for researchers, professionals, and technologists interested in quantum computing and supply chain practices. Features: - Provides an in-depth analysis of quantum computing technologies and their capacity to solve complex optimisation problems at scales unimaginable with traditional computing - Examines the impact of quantum computing on manufacturing and logistics, with a focus on sectors such as automotive and aerospace - Real-world scenarios illustrate how quantum solutions can streamline operations and drive efficiency - Explores quantum algorithms and their use in addressing challenges like route optimisation, inventory management, and demand forecasting, offering strategies to reduce costs and improve resilience - Considers the current limitations, ethical implications, and the path to widespread adoption of quantum computing in supply chains, emphasising the need for interdisciplinary collaboration

Quantum Computing in Logistics and Supply Chain Management discusses the transformative potential of quantum computing in reshaping the landscape of supply chain management.

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