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	Autore	Raj Pethuru
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	Sommario/riassunto	This book explores the essential role of quantum computing and artificial intelligence in advancing healthcare. This comprehensive guide explores the practical applications and real-world use cases, exploring their transformative potential across various sectors. It covers nanodiagnostic tools known for accuracy, along with advanced imaging techniques. Through real-world examples, it offers valuable insights on nanomaterials to improve medical solutions. This book is divided into three sections. The first section examines the fundamentals of quantum computing and its practical applications. The second section explores how quantum computing offers a myriad of opportunities to various industries, transitions between classical and quantum networks, and post-quantum cryptography. The third section further explores the exciting potential of quantum machine learning for

Industry 4.0, as well as the applications of quantum computing and AI applications in the emerging Industry 5.0 landscape.