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	Sommario/riassunto	This book explores the applications of cutting-edge technologies such as AI, blockchain, signal processing, digital twin technology, and 5G communication technology in healthcare. The writing style combines diagrams, tables, formulae, and text to enhance readability. The content combines theoretical analysis and medical application in every chapter. This book presents several innovative methods, including an AI-based computer-aided diagnosis system, a blockchain-based AI system framework for healthcare, pre-processing algorithms for medical imaging, digital twin models for healthcare, a healthcare platform based on cloud, fog, and edge computing, and a personal health device domain information model. This book will be valuable for researchers, engineers, and post-graduate students in the fields of medicine management and software engineering.