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Sommario/riassunto

This book delves into the transformative potential of Industry 5.0, focusing on the integration of human intelligence with advanced technologies such as artificial intelligence, machine learning, and data analytics in the field of welding. It explores various aspects of

automation in welding, including advancements in welding technologies, the role of AI and machine learning, and the implementation of digital twins and the Internet of Things (IoT) in welding industries. The book also discusses the use of virtual and augmented reality in welding processes and the development of intelligent and clean cobot arc welding cells. It is intended for professionals and researchers in the welding industry seeking to understand and apply cutting-edge technologies for enhanced efficiency and innovation.
