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Sommario/riassunto

This handbook offers an in-depth exploration of flexible and smart sheet forming techniques, emphasizing Industry 4.0 approaches. It covers various aspects of incremental sheet forming (ISF), including single-point, two-point, and hybrid methods, with a focus on materials, formability limits, and machining parameters. The book also explores finite element simulations and analyses stress and force behaviors in sheet metal forming. Additionally, it discusses the integration of IoT and cloud-based communication protocols, fault tree analysis for defect detection, and the application of blockchain technology in Industry 4.0. Geared towards engineers and researchers in mechanical engineering, the book aims to provide comprehensive insights into advanced manufacturing processes.
