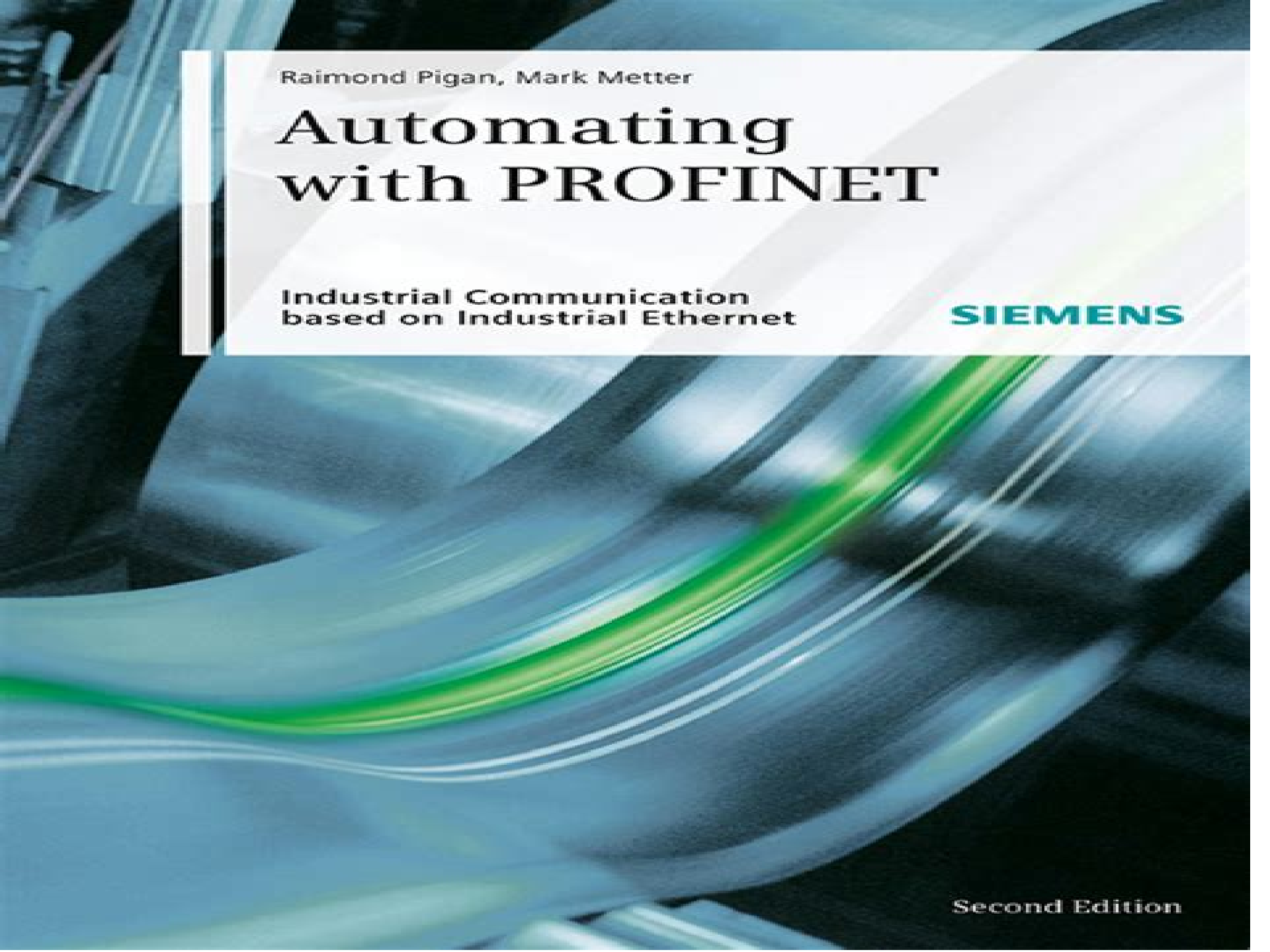




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Automating with PROFINET

Industrial Communication
based on Industrial Ethernet

SIEMENS

Second Edition

Automating With Profinet Industrial Communication Based On Industrial Ethernet

Hans Berger



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Transforming Industries Ashima Kalra, Sita Rani, Ravinder Kumar, Ahmed A. Elngar, 2025-10-28 The rapid convergence of the industrial internet of things (IIoT) and machine learning (ML) is propelling us into a new era known as Industry 5.0. This era is defined by unparalleled levels of automation, customization, and sustainability. Despite these advancements, there is a noticeable absence of comprehensive resources that offer a complete understanding of these transformative technologies and their practical applications across various industrial sectors. Transforming Industries: Capturing the Potential of IIoT and ML in the Era of Industry 5.0 aims to fill the void by providing a timely and relevant guide that explores the theoretical foundations of the technologies while also presenting real-world case studies and best practices. This comprehensive text discusses the profound impact of the IIoT and ML on various sectors, including manufacturing, supply chain management, and energy production. It provides a thorough examination of the opportunities and obstacles associated with these cutting-edge technologies. Through real-world case studies and success stories, readers gain insight into how industry leaders have successfully leveraged IIoT and ML solutions to optimize operational efficiency, foster innovation, and achieve unparalleled excellence. Practical strategies and detailed guidelines are also offered to facilitate the seamless integration of these technologies into existing workflows, empowering businesses to navigate the complexities of digital

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