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Autore	Sun Yao
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Sommario/riassunto

This book, 'Federated Learning for Future Intelligent Wireless Networks,' explores the application of federated learning in mobile edge computing systems, emphasizing its potential to enhance communication efficiency and privacy in wireless networks. Edited by Yao Sun, Chaoqun You, Gang Feng, and Lei Zhang, the book presents various models and techniques for implementing federated learning in challenging environments, including unreliable transmissions, non-IID data, and noisy data conditions. Key topics include resource allocation, device association, and privacy-preserving methods such as differential privacy and knowledge distillation. Aimed at researchers and professionals in wireless communications and machine learning, this work provides insights into the integration of AI technologies into future 6G networks.