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Reconfigurable RF and Microwave Technologies: Materials, Techniques, and Integration

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This is a comprehensive guide to the latest innovations in reconfigurable RF and microwave technologies, providing a deep dive into advanced materials, fabrication techniques, and integration methods that are transforming the industry. In an era where wireless communication and RF/microwave technologies are continuously evolving, flexible, high-performance, and miniaturized RF and microwave components are in high demand. This book covers essential manufacturing methods such as micromachining, 3D printing, thin film growth methods, and photolithography. It also explores cutting-edge reconfigurable technologies enabled by mechanical tuning, RF MEMS, and semiconductor switches.

Each chapter is designed to equip researchers, engineers, and students with practical insights into both the fundamental principles and the latest advancements in RF and microwave design. Whether you're developing tunable RF filters, antennas, or phase shifters, Reconfigurable RF and Microwave Technologies: Materials, Techniques, and Integration serves as an invaluable resource to learn fabrication and integration techniques needed to meet the demands of current and next-generation wireless systems.

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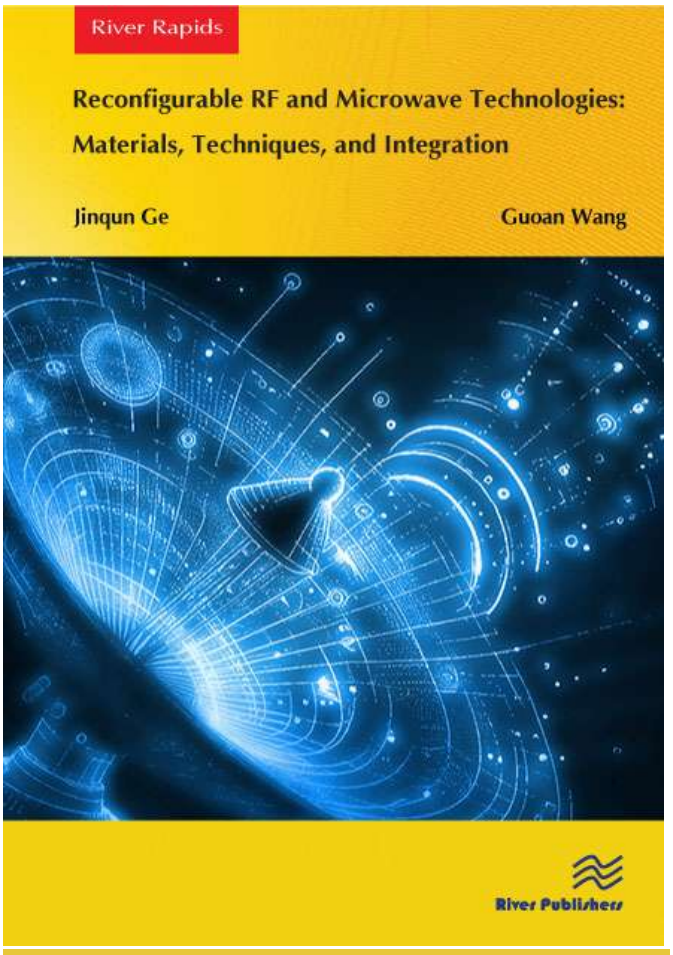

River Publishers Series in River Rapids

ISBN: 9788770047883
e-ISBN: 9788770047876
Available From: April 2025
Price: $ 95.00

KEYWORDS:
Reconfigurable RF and microwave components, microwave technologies, advanced manufacturing techniques, ferroelectric and ferromagnetic materials, thin film integration.

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