

1. Record Nr.	UNINA9911042409503321
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Titolo	RF and Microwave Power Amplifiers
Pubbl/distr/stampa	Norwood : , : Artech House, , 2025 ©2025
ISBN	1-68569-084-X
Edizione	[1st ed.]
Descrizione fisica	1 online resource (507 pages)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>RF and Microwave Power Amplifiers is a comprehensive guide to designing and understanding RF power amplifiers and systems, with a focus on achieving high efficiency across all classes and variations. This book provides essential tools and techniques for mastering the most critical areas of RF design, including Laterally Diffused Metal-Oxide-Semiconductor (LDMOS), Gallium Nitride (GaN), and Heterojunction Bipolar Transistor (HBT). This resource explores aspects of operation, including power, efficiency, saturation effects, biasing, drive mismatches, switching, and design strategies for handling Standing Wave Ratio (SWR). It focuses on real-world applications, focusing on how efficiency improvements contribute to higher output power, greater reliability, reduced size and cost, and longer battery life for portable devices. This book combines foundational theory with practical insights, offering step-by-step equations, final design formulas, and problems-solving techniques. With background material, advanced discussions, and solutions for self-study or classroom use, it is a guide to understanding and designing efficient, reliable RF power amplifiers. It serves as an indispensable resource for practicing engineers transitioning into RF power, experienced RF designers in need of a reliable reference, and students preparing for a career in one of the most in-demand areas of the industry.</p>

