



# RF and Microwave Power Amplifier Design, Second Edition

*Andrei Grebennikov*

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# RF and Microwave Power Amplifier Design, Second Edition

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**RF and Microwave Power Amplifier Design, Second Edition** Andrei Grebennikov

## **The latest power amp design methods**

Fully updated to address cutting-edge technologies, the new edition of this practical guide provides comprehensive, state-of-the-art coverage of RF and microwave power amplifier design. The book describes both existing and new schematic configurations, theoretical approaches, circuit simulation results, and implementation techniques.

New chapters discuss linearization and efficiency enhancement and high-efficiency Doherty power amplifiers. Featuring a systematic approach, this comprehensive resource bridges the theory and practice of RF and microwave engineering.

*RF and Microwave Power Amplifier Design*, Second Edition, covers:

- Two-port network parameters and passive elements
- Nonlinear circuit design methods
- Nonlinear active device modeling
- Impedance matching
- Power transformers, combiners, and couplers
- Power amplifier design fundamentals
- High-efficiency power amplifier design
- Broadband power amplifiers
- Linearization and efficiency enhancement techniques
- High-efficiency Doherty power amplifiers

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