



Practical RF Handbook (EDN Series for Design Engineers)

By *Ian Hickman*

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Radio Frequency (RF) is the fundamental technology behind a huge range of modern consumer electronics and wireless communication devices, and this book provides a comprehensive and methodical guide to RF for engineers, technicians, enthusiasts and hobbyists with an interest in the electronics behind radio frequency communications.

In Practical RF Handbook, Ian Hickman draws upon his own radio engineering background to develop a hands-on guide to the difficulties and pitfalls of RF design with a minimum of maths. A broad coverage includes devices, circuits, equipment, systems, radio propagation and external noise to fully acquaint the reader with the necessary circuit technologies and techniques.

The fourth edition brings the book fully up-to-date with new advances in RF, including coverage of OFDM, UWB, WiFi and WiMax.

- * Practical coverage of the cutting-edge technology behind the fast-moving world of communications electronics
- * Real-world design guide for engineers, technicians and students, covering key principles with a minimum of maths
- * Updated throughout, including coverage of recent hot topics such as UWB, WiFi and WiMax

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Editorial Review

Review

'A valuable source for all RF engineers.'

Elektor Electronics

From the Publisher

New sections and major updates in the third edition include: RF ICs, DBMs, SAW filters, integrated power amplifier modules, active arrays, use of network analysers, and a completely new chapter on digital filtering.

From the Back Cover

*Gives readers the inside track in the RF circuit design industry from a leading design guru

*Discusses the cutting-edge technology of the fast-moving world of communications electronics

*RF is an extremely hot area in electronics design, providing the technology for the wireless revolution, including mobile phones and Bluetooth

Radio Frequency (RF) is the hot topic in electronics design, providing the technology for the wireless revolution, including mobile phones and Bluetooth, the system that is linking the wide range of electronic devices and control systems used in the home and workplace. RF engineers are at the forefront in radio, telecommunications, space technology, avionics, optical communications, radar, navigation, medical electronics and computers.

Ian Hickman's Practical RF Handbook is well established as a hands-on guide for engineers, technicians, students and enthusiasts working in RF design. The author's own radio engineering background means that he really talks the language of an engineer, with an awareness of the difficulties and pitfalls faced in RF design, and using a minimum of maths to get his point across.

The structure of the book is methodical and comprehensive, covering all the key topics in RF: analogue design principles, transmission lines, transformers, couplers, amplifiers, oscillators, modulation, transmitters and receivers, propagation and antennas.

New sections and major updates in the third edition include: RF ICs, DBMs, SAW filters, integrated power amplifier modules, active arrays, use of network analysers, and a completely new chapter on digital filtering.

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