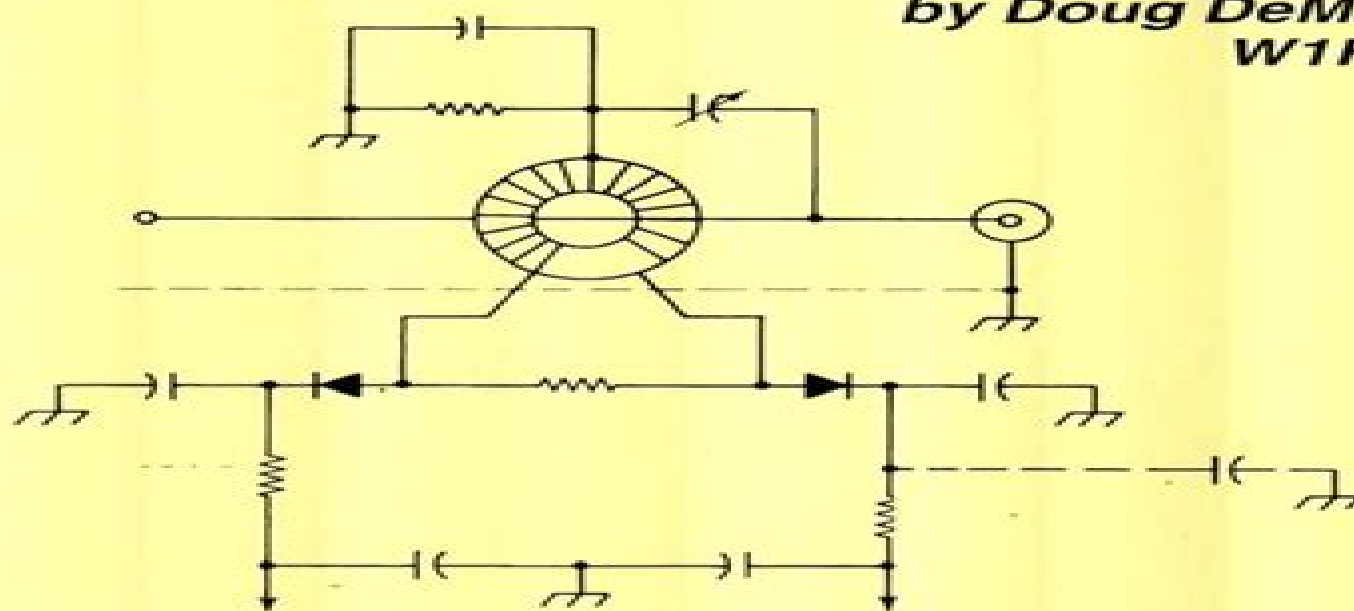


# PRACTICAL RF DESIGN MANUAL

*by Doug DeMaw  
W1FB*



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# Practical Rf Design Manual Demaw

**Cotter W. Sayre**



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*Practical RF Design Manual* Doug DeMaw, 1997      *Practical RF Design Manual* Doug DeMaw, 1982      **The Design of Low Noise Oscillators** Ali Hajimiri, Thomas H Lee, 1999-02-28 It is hardly a revelation to note that wireless and mobile communications have grown tremendously during the last few years. This growth has placed stringent requirements on channel spacing and by implication on the phase noise of oscillators. Confronting the challenge has been a recent drive toward implementations of transceivers in CMOS whose inferior 1 f noise performance has usually been thought to disqualify it from use in all but the lowest performance oscillators. Low noise oscillators are also highly desired in the digital world of course. The continued drive toward higher clock frequencies translates into a demand for ever decreasing jitter. Clearly there is a need for a deep understanding of the fundamental mechanisms governing the process by which device substrate and supply noise turn into jitter and phase noise. Existing models generally offer only qualitative insights; however, and it has not always been clear why they are not quantitatively correct.      **EPR: Instrumental Methods** Christopher J. Bender, Lawrence J. Berliner, 2012-12-06 Electron magnetic resonance spectroscopy is undergoing something akin to a renaissance that is attributable to advances in microwave circuitry and signal processing software. *EPR Instrumental Methods* is a textbook that brings the reader up to date on these advances and their role in providing better experimental techniques for biological magnetic resonance. Chapters in this book guide the reader from basic principles of spectrometer design through the advanced methods that are providing new vistas in disciplines such as oximetry, imaging, and structural biology. **Key Features:** Spectrometer design, particularly at low frequencies below X band; Design of spectrometer components unique to ENDOR and ESEEM; Optimization of EMR spectrometer sensitivity spanning many octaves; Algorithmic approach to spectral parameterization; Application of Fourier Methods to polymer conformation, oximetry, and imaging.      **The ARRL Handbook for the Radio Amateur**, 2001      **RF Power Amplifiers** Mihai Albulet, 2001-06-30 The book reviews developments in the following fields: RF power amplifiers, modulators, and power transistors.      *RF Circuit Design* Christopher Bowick, 2011-04-08 It's Back! New chapters, examples, and insights all infused with the timeless concepts and theories that have helped RF engineers for the past 25 years. RF circuit design is now more important than ever as we find ourselves in an increasingly wireless world. Radio is the backbone of today's wireless industry with protocols such as Bluetooth, Wi-Fi, WiMax, and ZigBee. Most if not all mobile devices have an RF component, and this book tells the reader how to design and integrate that component in a very practical fashion. This book has been updated to include today's integrated circuit (IC) and system level design issues as well as keeping its classic wire lead material. **Design Concepts and Tools Include:** The Basics, Wires, Resistors, Capacitors, Inductors, Resonant Circuits, Resonance, Insertion Loss, Filter Design, High pass, Bandpass, Band rejection, Impedance Matching, The L Network, Smith Charts, Software Design Tools, Transistors, Materials, Y Parameters, S Parameters, Small Signal RF Amplifier, Transistor Biasing, Y Parameters, S Parameters, RF Power Amplifiers, Automatic Shutdown Circuitry.

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