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6 RF and Microwave Circuit Design
Figure 4-2 Input impedance showing the resonance frequency at ω_1 The input impedance of the series RLC resonant circuit is given by, $Z = R + j\omega L - j\frac{1}{\omega C}$ where, $\omega = 2\pi f$ is the angular frequency in radian per second. If the AC current flowing in the series resonant circuit is I , then the complex

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164 MICROWAVE AND RF DESIGN: A SYSTEMS APPROACH around bends, etc. When the separation is more than one-half wavelength EMenergy will radiateaway fromthe line. The coaxialline shown in Figure 4-1(c) completely confines the field between the inner conductor and the outer conductor.

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RF and microwave circuit design is a fascinating and fulfilling career path. It is also an extremely vast subject with topics ranging from semiconductor physics to electromagnetic theory and techniques.

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Typically, such circuits must operate at radio frequency and power levels, which imposes special constraints on their design. These constraints increase in their importance with higher frequencies. At microwave frequencies, the reactance of signal traces becomes a crucial part of the physical layout of the circuit.

Radio-frequency engineering -

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Wikipedia

Microwave and RF Design: Radio Systems is a circuits- and systems-oriented approach to modern microwave and RF systems. Sufficient details at the circuits and sub-system levels are provided to understand how modern radios are implemented. Design is emphasized throughout.

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PCB layouts with RF or microwave circuits tend to be much more difficult to design than the typical analog or digital PCB. This is because of some of the more problematic features and qualities associated with RF signals. When designing an RF or Microwave PCB, keep the following points and problems in mind.

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ASC's Director of Technology John Bushie explains the fundamentals of

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RF/Microwave Coupling

Lawrence E. Larson is the author of RF and Microwave Circuit Design for Wireless Communications (3.00 avg rating, 1 rating, 0 reviews, published 1996), D...

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À propos. I am a radiofrequency (RF) engineer with a broad international experience in the Space, RF/Microwave and Microelectronics sectors. My main interests are on design, simulation and modelling of active RF circuits and systems.

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