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We see, then, that RF design is not about merely generating EMR; rather, RF design is the art and science of generating and manipulating and interpreting EMR in a way that allows you to reliably transfer meaningful information between two circuits that have no direct electrical connection.

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Radio-frequency (RF) engineering is a subset of electronic

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engineering involving the application of transmission line, waveguide, antenna and electromagnetic field principles to the design and application of devices that produce or utilize signals within the radio band, the frequency range of about 20 kHz up to 300 GHz.

## **Radio-frequency engineering - Wikipedia**

6 RF and Microwave Circuit Design Figure 4-2 Input impedance showing the resonance frequency at  $\omega_1$  The input impedance of the series RLC resonant circuit is given by,  $Z = R + j\omega L + \frac{1}{j\omega C}$  where,  $\omega = 2\pi f$  is the angular frequency in radian per second.

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## **RF Basics, RF for Non-RF Engineers - TI.com**

"RF Circuit Design" is clearly structured as an undergraduate text, but should also serve as a professional reference. It explains RF theory in detail. You get exactly what you need to know and a lot of other topics that are hi-tech, all of them with practical examples.

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