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This book was last updated in June 2020. The second edition of

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The essential concepts of active microwave circuit designs are presented clearly and concisely, with practical design examples including low noise amplifiers (LNA), power amplifiers (PA), microwave oscillator, phase locked loop (PLL), and mixers. Students will master practical skills for creating schematics and EM simulations, drawing and generating layouts, and verifying circuit designs.

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6 RF and Microwave Circuit Design Figure 4-2 Input impedance showing the resonance frequency at ω_0 The input impedance of the series RLC resonant circuit is given by, $Z_{in} = R + j(\omega L - 1/\omega C)$ where, $\omega = 2\pi f$ is the angular frequency in radian per second.

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