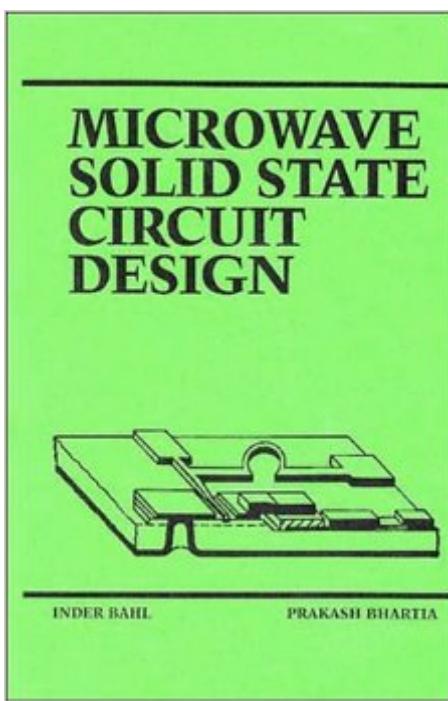


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Microwave Solid State Circuit Design



Synopsis

This contributed volume presents a comprehensive discussion of the design of passive circuits, solid state devices, and microwave solid state circuits. Because this is a very diversified area, the subject can only be covered well by a team of authors who are specialists in different topics. The editors of this book have brought together just such a team. Coverage is state-of-the-art and includes extensive references and problems. Topics covered include transmission lines and lumped elements, resonators, impedance matching networks, hybrids and couplers, filters, active and passive solid state devices, oscillators, amplifiers, detectors and mixers, microwave control circuits, frequency multipliers and dividers, computer-aided design, microwave integrated circuits, and future trends in microwave circuits. Appendixes cover S-parameters and ABCD parameters; transfer functions: Bessel, Butterworth, Chebyshev, Gaussian, etc.; nonreciprocal components, and noise.

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