

## RF and microwave hybrid circuits - foundation materials and processes



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## RF AND MICROWAVE HYBRID CIRCUITS - FOUNDATION MATERIALS AND PROCESSES



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paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Pages Number: 0 Publisher: Water Power Press Pub. Date :2006-11 -01 In recent years. wireless communications. automotive electronics and defense electronics industry. the development of electronic systems for high-frequency fast-growing demand. And monolithic microwave integrated circuit (MMIC) echoes the continued development. hybrid microwave integrated circuit (HMIC) of new materials and new technology also has made significant progress. Book begins with the basic concepts of radio frequency microwave briefly introduced. compared monolithic microwave integrated circuits and hybrid microwave integrated circuit characteristics. described as the basis of RF Microwave components. transmission lines and hybrid technology. waveguide structure; then RF microwave applications point of view of basic materials (conductors. dielectric and substrate) and its properties were discussed. including them for the impedance. high-frequency performance of the circuit; Finally. we discuss a variety of hybrid microwave integrated circuit application process. Book is suitable for hybrid microwave integrated circuit (HMIC) developed by design engineers. process engineers and materials engineers to read. also suitable for higher education in electrical engineering. microelectronics and microwave engineering senior undergraduate and graduate teaching reference books. Contents: Chapter 1 hybrid microwave integrated circuits and monolithic microwave integrated circuits References Chapter 2 Basic Concepts 2.1 Introduction 2.2 Maxwell s Law 2.3 2.4 dielectric constant and magnetic permeability of free space wavelength of 2.5 velocity 2.6 db (dB) 2.7 Q value 2.8 Small signal measurement (S parameters) References Chapter 3 3.1 Impedance waveguide wavelength of 3.2 microstrip waveguide 3.2.1 (g) 3.3 3.4 CPW stripline current reference Chapter 4 4.1.1 dielectric loss and loss 4.1 anisotropic conductor loss tan 4.1.2 4.2.1 4.2 4.2.2 Loss wavelength waveguide attenuation 4.2.3 4.2.4 VSWR Return Loss (VSWR) 4.2.5 4.2.6 attached to the skin depth layer 4.2.7 surface...



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