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transistor equivalent circuits Microwave transmission line technologies and microstrip design Network methods and s-parameter measurements Smith chart and related design techniques Broadband and low-noise amplifier design Mixer theory and design Microwave filter design Oscillators, synthesisers and phase locked loops Each chapter is written by specialists in their field and the whole is edited by experience authors whose expertise spans the fields of communications systems engineering and microwave circuit design. Microwave Devices, Circuits and Subsystems for Communications Engineering is suitable for senior electrical, electronic or telecommunications engineering undergraduate students, first year postgraduate students and experienced engineers seeking a conversion or refresher text. Includes a companion website featuring: Solutions to selected problems Electronic

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electronics, printed electronics, flexible electronics and large-area electronics. Provides in-depth information on solution processing fundamentals, techniques, considerations and barriers combined with key device applications Reviews important device applications, including transistors, light-emitting diodes, and photovoltaic cells Includes an overview of metal oxide materials systems (semiconductors, nanomaterials and thin films), addressing materials synthesis, properties, limitations and surface aspects

Introduction: Electromagnetic waves. Waveguides as transmission lines. Elements of network theory. General microwave circuit theorems. Waveguide circuit elements. Resonant cavities as microwave circuit elements. Radial transmission lines. Waveguide junctions with several arms. Mode transformations. Dielectrics in

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syntheses of pharmacologically significant aza-, oxo- and other heterocycles, including lactams, nucleosides, bile acids and sterols, the preparation of nanomaterials, composites, and absorber layer materials for thin film. This book also incorporates comparative discussions involving microwave irradiation with conventional methods in different aspects of organic, inorganic, medicinal, and green chemistry. Key Features: Provides a comparative discussion on microwave irradiation with conventional methods in different aspects of organic, inorganic, medicinal, and green chemistry Presents recent applications of microwave radiation in biocatalysis Offers a complete package correlating various aspects of microwaves in organic syntheses, the biological impact of products formed in reactions, pharmacological features, and environmental sustainability of the procedures Explains microwave-induced

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