



Microwave Systems Design

By Zaiki Awang

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The aim of this book is to serve as a design reference for students and as an up-to-date reference for researchers. It also acts as an excellent introduction for newcomers to the field and offers established rf/microwave engineers a comprehensive refresher. The content is roughly classified into two – the first two chapters provide the necessary fundamentals, while the last three chapters focus on design and applications. Chapter 2 covers detailed treatment of transmission lines. The Smith chart is utilized in this chapter as an important tool in the synthesis of matching networks for microwave amplifiers. Chapter 3 contains an exhaustive review of microstrip circuits, culled from various references. Chapter 4 offers practical design information on solid state amplifiers, while Chapter 5 contains topics on the design of modern planar filters, some of which were seldom published previously. A set of problems at the end of each chapter provides the readers with exercises which are compiled from actual university exam questions. An extensive list of references is available at the end of each chapter to enable readers to obtain further information on the topics covered.

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Editorial Review

From the Back Cover

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About the Author

Prof. Zaiki Awang is a Professor of Microwaves at the faculty of electrical engineering and head of Microwave Technology Centre, Universiti Teknologi MARA, Shah Alam, Malaysia. He was the past chairman, Institute of Electrical and Electronics Engineers (IEEE) USA, Malaysia Section and IEEE Malaysia Antenna and Propagation/Microwave Theory and Techniques/Electromagnetic Compatibility Joint Chapter. In addition he is the head, commission of Electronics and Photonics and Malaysia representative, International Union of Radio Science (URSI, Belgium). He has published more than 150 research papers in technical journals and proceedings, and written more than 50 technical reports for the profession and the industry.

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