

Microwave Engineering: Concepts and Fundamentals

By Ahmad Shahid Khan

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Detailing the active and passive aspects of microwaves, **Microwave Engineering: Concepts and Fundamentals** covers everything from wave propagation to reflection and refraction, guided waves, and transmission lines, providing a comprehensive understanding of the underlying principles at the core of microwave engineering. This encyclopedic text not only encompasses nearly all facets of microwave engineering, but also gives all topics—including microwave generation, measurement, and processing—equal emphasis. Packed with illustrations to aid in comprehension, the book:

- Describes the mathematical theory of waveguides and ferrite devices, devoting an entire chapter to the Smith chart and its applications
- Discusses different types of microwave components, antennas, tubes, transistors, diodes, and parametric devices
- Examines various attributes of cavity resonators, semiconductor and RF/microwave devices, and microwave integrated circuits
- Addresses scattering parameters and their properties, as well as planar structures including striplines and microstrips
- Considers the limitations of conventional tubes, behavior of charged particles in different fields, and the concept of velocity modulation

Based on the author's own class notes, **Microwave Engineering: Concepts and Fundamentals** consists of 16 chapters featuring homework problems, references, and numerical examples. PowerPoint® slides and MATLAB®-based solutions are available with qualifying course adoption.

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