



Wireless and Guided Wave Electromagnetics: Fundamentals and Applications (Optics and Photonics)

Le Nguyen Binh

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Wireless communications allow high-speed mobile access to a global Internet based on ultra-wideband backbone intercontinental and terrestrial networks. Both of these environments support the carrying of information via electromagnetic waves that are wireless (in free air) or guided through optical fibers.

Wireless and Guided Wave Electromagnetics: Fundamentals and Applications explores the fundamental aspects of electromagnetic waves in wireless media and wired guided media. This is an essential subject for engineers and physicists working with communication technologies, mobile networks, and optical communications.

This comprehensive book:

- Builds from the basics to modern topics in electromagnetics for wireless and optical fiber communication
- Examines wireless radiation and the guiding of optical waves, which are crucial for carrying high-speed information in long-reach optical networking scenarios
- Explains the physical phenomena and practical aspects of guiding optical waves that may not require detailed electromagnetic solutions
- Explores applications of electromagnetic waves in optical communication systems and networks based on frequency domain transfer functions in the linear regions, which simplifies the physical complexity of the waves but still allows them to be examined from a system engineering perspective
- Uses MATLAB® and Simulink® models to simulate and illustrate the electromagnetic fields
- Includes worked examples, laboratory exercises, and problem sets to test understanding

The book's modular structure makes it suitable for a variety of courses, for self-study, or as a resource for research and development. Throughout, the author emphasizes issues commonly faced by engineers. Going a step beyond traditional electromagnetics textbooks, this book highlights specific uses of electromagnetic waves with a focus on the wireless and optical technologies that are increasingly important for high-speed transmission over very long distances.

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