



# Electromagnetic Waves, Second Edition

*Carlo G. Somenza*

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# Electromagnetic Waves, Second Edition

*Carlo G. Someda*

## **Electromagnetic Waves, Second Edition** Carlo G. Someda

Adapted from a successful and thoroughly field-tested Italian text, the first edition of *Electromagnetic Waves* was very well received. Its broad, integrated coverage of electromagnetic waves and their applications forms the cornerstone on which the author based this second edition. Working from Maxwell's equations to applications in optical communications and photonics, *Electromagnetic Waves, Second Edition* forges a link between basic physics and real-life problems in wave propagation and radiation.

Accomplished researcher and educator Carlo G. Someda uses a modern approach to the subject. Unlike other books in the field, it surveys all major areas of electromagnetic waves in a single treatment. The book begins with a detailed treatment of the mathematics of Maxwell's equations. It follows with a discussion of polarization, delves into propagation in various media, devotes four chapters to guided propagation, links the concepts to practical applications, and concludes with radiation, diffraction, coherence, and radiation statistics. This edition features many new and reworked problems, updated references and suggestions for further reading, a completely revised appendix on Bessel functions, and new definitions such as antenna effective height.

Illustrating the concepts with examples in every chapter, *Electromagnetic Waves, Second Edition* is an ideal introduction for those new to the field as well as a convenient reference for seasoned professionals.

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