



# **Electromagnetic Boundary Problems (Electromagnetics, Wireless, Radar, and Microwaves)**

*Edward F. Kuester, David C. Chang*

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Electromagnetic Boundary Problems introduces the formulation and solution of Maxwell's equations describing electromagnetism. Based on a one-semester graduate-level course taught by the authors, the text covers material parameters, equivalence principles, field and source (stream) potentials, and uniqueness, as well as:

- Provides analytical solutions of waves in regions with planar, cylindrical, spherical, and wedge boundaries
- Explores the formulation of integral equations and their analytical solutions in some simple cases
- Discusses approximation techniques for problems without exact analytical solutions
- Presents a general proof that no classical electromagnetic field can travel faster than the speed of light
- Features end-of-chapter problems that increase comprehension of key concepts and fuel additional research

**Electromagnetic Boundary Problems** uses generalized functions consistently to treat problems that would otherwise be more difficult, such as jump conditions, motion of wavefronts, and reflection from a moving conductor. The book offers valuable insight into how and why various formulation and solution methods do and do not work.

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