



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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