



# Electromagnetic Fields in Cavities: Deterministic and Statistical Theories

*David A. Hill*

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# Electromagnetic Fields in Cavities: Deterministic and Statistical Theories

David A. Hill

**Electromagnetic Fields in Cavities: Deterministic and Statistical Theories** David A. Hill  
**A thorough and rigorous analysis of electromagnetic fields in cavities**

This book offers a comprehensive analysis of electromagnetic fields in cavities of general shapes and properties.

**Part One** covers classical deterministic methods to conclude resonant frequencies, modal fields, and cavity losses; quality factor; mode bandwidth; and the excitation of cavity fields from arbitrary current distributions for metal-wall cavities of simple shape.

**Part Two** covers modern statistical methods to analyze electrically large cavities of complex shapes and properties.

*Electromagnetic Fields in Cavities* combines rigorous solutions to Maxwell's equations with conservation of energy to solve for the statistics of many quantities of interest: penetration into cavities (and shielding effectiveness), field strengths far from and close to cavity walls, and power received by antennas within cavities. It includes all modes and shows you how to utilize fairly simple statistical formulae to apply to your particular problem, whether it's interference calculations, electromagnetic compatibility testing in reverberation chambers, measurement of shielding materials using multiple cavities, or efficiency of test antennas. *Electromagnetic Fields in Cavities* is a valuable resource for researchers, engineers, professors, and graduate students in electrical engineering.

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