

Antenna Theory and Practice

By Rajeswari Chatterjee

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This is an exploration of the underlying principles of conventional and newly emerging antenna technology, paying special attention to the mathematical and physical aspects. The selection of topics and problems is aimed at equipping those entering the field with the latest information in this fast-expanding area while enabling them to explore new possibilities in specialized branches of antenna engineering. Reflecting the intensive research and development in this field in recent years, it examines new ideas in the mechanism of radiation from dielectric and dielectric-loaded antennas. Coverage is given of microstrip transmission lines and antennas, including rectangular patch and square patch types, with a discussion of their limitations and an explanation of radiation therapy. Conventional antennas discussed here include linear, loop, biconical, surface-band and wideband. The text also provides coverage of transform techniques for analyzing and synthesizing antenna problems and a concise discussion of measurement techniques.

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