



Antenna Theory: Analysis And Design, 3Rd Ed

Constantine A. Balanis

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The third edition of antenna theory is designed to meet the needs of electrical engineering and physics students at the senior undergraduate and beginning graduate levels, and those of practicing engineers as well. The text assumes that the students have a knowledge of basic undergraduate electromagnetic theory, including maxwell's equations and the wave equation, introductory physics, and differential and integral calculus. 1. Antennas. 2. Fundamental parameters of antennas. 3. Radiation integrals and auxiliary potential functions. 4. Linear wire antennas. 5. Loop antennas. 6. Arrays: linear, planar, and circular. 7. Antenna synthesis and continuous sources. 8. Integral equations, moment method, and self and mutual impedances. 9. Broadband dipoles and matching techniques. 10. Traveling wave and broadband antennas. 11. Frequency independent antennas, antenna miniaturization and fractal antennas. 12. Aperture antennas. 13. Horn antennas. 14. Microstrip antennas. 15. Reflector antennas. 16. Smart antennas. 17. Antenna measurements.

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