



Small Antennas: Miniaturization Techniques & Applications

John Volakis, Chi-Chih Chen, Kyohei Fujimoto

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Next-generation small antenna design techniques

This authoritative text provides the most up-to-date methods on the theory and design of small antennas, including an extensive survey of small antenna literature published over the past several years. Written by experts at the forefront of antenna research, *Small Antennas: Miniaturization Techniques & Applications* begins with a detailed presentation of small antenna theory--narrowband and wideband--and progresses to small antenna design methods, such as materials and shaping approaches for multiband and wideband antennas.

Generic miniaturization techniques are presented for narrowband, multiband, and wideband antennas. Two chapters devoted to metamaterials antennas and methods to achieve optimal small antennas, as well as a chapter on RFID technologies and related antennas, are included in this comprehensive volume. Coverage includes:

- Small antenna theory and optimal parameters
- Theory and limits of wideband electrically small antennas
- Extensive literature survey of small antenna designs
- Practical antenna miniaturization approaches
- Conformal wideband antennas based on spirals
- Negative refractive index (NRI) metamaterial and electromagnetic band gap (EBG) based antennas
- Small antennas based on magnetic photonic and degenerate band edge crystals
- Impedance matching for small antennas using passive and active circuits
- RFID antennas and technology

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