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Segment Antennas; 1.5.11 Multiple Multipoles; 1.5.12 Switched Loop Antennas; 1.6 ESA Summary; References; Author Index; 2. Superdirective Antennas; 2.1 History and Motivation; 2.2 Maximum Directivity; 2.2.1 Apertures; 2.2.2 Arrays; 2.2.2.1 Broadside Arrays of Fixed Spacing; 2.2.2.2 Endfire Arrays; 2.3 Constrained Superdirectivity; 2.3.1 Dolph-Chebyshev Superdirectivity; 2.3.2 Superdirective Ratio Constraint; 2.3.3 Bandwidth or Q Constraint; 2.3.4 Phase or Position Adjustment; 2.3.5 Tolerance Constraint
2.4 Bandwidth, Efficiency, and Tolerances 2.4.1 Bandwidth; 2.4.2 Efficiency; 2.4.3 Tolerances; 2.5 Miscellaneous Superdirectivity; 2.6 Matching Circuit Loss Magnification; 2.7 Non-Foster Matching Circuits; 2.8 SD Antenna Summary; References; Author Index; 3. Superconducting Antennas; 3.1 Introduction; 3.2 Superconductivity Concepts for Antenna Engineers; 3.3 Dipole, Loop, and Patch Antennas; 3.3.1 Loop and Dipole Antennas; 3.3.2 Microstrip Antennas; 3.3.3 Array Antennas; 3.3.4 Millimeter Wave Antennas; 3.3.4.1 Waveguide Flat Plane Array; 3.3.4.2 Microstrip Planar Array
3.3.5 Submillimeter Antennas 3.3.6 Low-Temperature Superconductor Antennas; 3.4 Phasers and Delay Lines; 3.5 SC Antenna Summary; References; Author Index; Subject Index

Sommario/riassunto

A seminal reference to electrically small antennas for today's wireless and Wi-Fi world This book is dedicated to the challenges posed by electrically small antennas and their solutions. Electrically small antennas have characteristics that limit performance: low radiation resistance, high reactance, low efficiency, narrow bandwidth, and increased loss in the matching network. Most of these limitations are shared by two other classes of antennas: superdirective and superconducting antennas. All three classes of antennas are thoroughly treated in three interrelated parts: * Part O
