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Nota di contenuto	Preface to the First Edition -- Preface to the Second Edition -- 1 Introduction -- 1.1 Array Background -- 1.2 Systems Factors -- 1.3 Annotated Reference Sources -- References -- 2 Basic Array Characteristics -- 2.1 Uniformly Excited Linear Arrays -- 2.2 Planar Arrays -- 2.3 Beam Steering and Quantization Lobes -- 2.4 Directivity -- References -- 3 Linear Array Pattern Synthesis -- 3.1 Introduction -- 3.2 Dolph Chebyshev Arrays -- 3.3 Taylor One-Parameter Distribution -- 3.4 Taylor N-Bar Aperture Distribution -- 3.5 Low- Sidelobe Distributions -- 3.6 Villeneuve N-Bar Array Distribution -- 3.7 Difference Patterns -- 3.8 Sidelobe Envelope Shaping -- 3.9 Shaped Beam Synthesis -- 3.10 Thinned Arrays -- Acknowledgment -- References -- 4 Planar and Circular Array Pattern Synthesis -- 4.1 Circular Planar Arrays -- 4.2 Noncircular Apertures -- Acknowledgment -- References -- 5 Array Elements -- 5.1 Dipoles -- 5.2 Waveguide Slots -- 5.3 TEM Horns -- 5.4 Microstrip Patches and Dipoles -- Acknowledgments -- References -- 6 Array Feeds -- 6.1 Series Feeds -- 6.2 Shunt (Parallel) Feeds -- 6.3 Two-Dimensional Feeds -- 6.4 Photonic Feed Systems -- 6.5 Systematic Errors -- Acknowledgments

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Sommario/riassunto

An in-depth treatment of array phenomena and all aspects of phased array analysis and design Phased Array Antennas, Second Edition is a comprehensive reference on the vastly evolving field of array antennas. The Second Edition continues to provide an in-depth evaluation of array phenomena with a new emphasis on developments that have occurred in the field over the past decade. The book offers the same detailed coverage of all practical and theoretical aspects of phased arrays as the first edition, but it now includes: New chapters on array-fed reflector antennas; conn
