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Sommario/riassunto	The first complete guide to phased array design and theory in more than thirty years - destined to become the standard reference in the field well into the twenty-first century The past twenty years have witnessed significant breakthroughs in our understanding of the principles behind phased array antennas and in their design and application. Yet not since R. C. Hansen's 1966 classic, Microwave Scanning Antennas, has there been a comprehensive reference in the field. Phased Array Antennas fills the gap in the professional literature. Phased Array Antennas is geared to the interests of both the practicing design engineer and the antenna array analyst. Written by an internationally recognized expert with more than four decades of experience in the field, it offers detailed coverage of all practical and theoretical aspects of phased arrays - from quantization lobes and low sidelobe pattern design and measurement to superdirectivity and HTS antennas and frequency scanners. It also provides in-depth coverage of topics such as finite array Gibbsian models, photonic feeding and time

delay, waveguide simulators, and beam orthogonality.; A multitude of original curves and tables show particular behaviors derived from hundreds of programs developed by the author over the past twenty years, and numerous computer design algorithms and numerical tips are found throughout the book. Phased Array Antennas is an indispensable tool-of-the-trade for antenna design engineers, radar engineers, PCS engineers, and communications engineers. It also serves as a complete text in phased array design and theory for advanced undergraduate-and graduate-level courses in electronics and communications.