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Titolo	Parametric Array Loudspeakers : From Theory to Application // by Jun Yang, Peifeng Ji
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ISBN	981-9635-48-9
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (XI, 384 p. 245 illus., 157 illus. in color.)
Disciplina	534
Soggetti	Acoustics Acoustical engineering Signal processing Mathematical models Measurement Measuring instruments Engineering Acoustics Digital and Analog Signal Processing Mathematical Modeling and Industrial Mathematics Measurement Science and Instrumentation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Overview -- Directional Beam Calculation -- Preprocessing Methods for Parametric Array Loudspeakers -- Measurement of Parametric Array Loudspeakers -- FPGA Implementation of Parametric Array Loudspeakers -- Beam Control of Parametric Array Loudspeaker -- Typical Applications of Parametric Array Loudspeakers.
Sommario/riassunto	This book highlights a comprehensive overview of research and technical advances related to parametric array loudspeakers (PALs), covering modeling and simulation, measurements, signal processing, beamsteering, and their implementations and applications. PALs that can achieve directional sound reproduction have received widespread attention from global researchers due to their advantages of narrow beam, highly directivity, and very small sidelobes. PALs have developed rapidly in theory and application and have been used in various

commercial products. At present, PALs have become a research hotspot in the field of audio engineering. The book is a must-have guiding reference for researchers, professionals and graduate students who seek to conduct further research on PALs.
