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Titolo	Acoustic array systems : theory, implementation, and application // Mingsian R. Bai, Jeong-Guon Ih, Jacob Benesty
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ISBN	1-299-31596-8 0-470-82724-6
Descrizione fisica	1 online resource (538 p.)
Disciplina	620.2/3
Soggetti	Noise generators (Electronics) Microphone arrays Sound analyzers Noise - Measurement Noise control
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface -- Acknowledgments -- Glossary: symbols and abbreviations -- 1. Introduction -- 2. Theoretical preliminaries of acoustics -- 3. Theoretical preliminaries of array signal processing -- 4. Farfield array signal processing algorithms -- 5. Nearfield array signal processing algorithms -- 6. Practical implementation -- 7. Time-domain MVDR array filter for speech enhancement -- 8. Frequency-domain array beamformers for noise reduction -- 9. Application examples -- 10. Concluding remarks and future perspectives -- Appendix: acoustic boundary element method.
Sommario/riassunto	Presents a unified framework of far-field and near-field array techniques for noise source identification and sound field visualization, from theory to application. Acoustic Array Systems: Theory, Implementation, and Application provides an overview of microphone array technology with applications in noise source identification and sound field visualization. In the comprehensive treatment of microphone arrays, the topics covered include an introduction to the theory, far-field and near-field array signal processing algorithms,

practical implementations, and common applic.

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