

1. Record Nr.	UNINA9911006594903321
Autore	Monzingo Robert A. <1938->
Titolo	Introduction to adaptive arrays // Robert A. Monzingo, Randy L. Haupt, Thomas W. Miller
Pubbl/distr/stampa	Raleigh, NC, : SciTech Pub., c2011
ISBN	1-61353-113-3 1-61344-154-1
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (559 p.)
Altri autori (Persone)	HauptRandy L MillerThomas W
Disciplina	621.382/4
Soggetti	Antenna arrays Antennas
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	Brief Contents; Preface; Part I - Adaptive Array Fundamental Principles: System Uses, System Elements, Basic Concepts, and Optimum Array Processing; 1. Introduction; 2. Adaptive Array Concept; 3. Optimum Array Processing; Part II - Adaptive Algorithms; 4. Gradient-Based Algorithms; 5. Direct Inversion of the Sample Covariance Matrix; 6. Recursive Methods for Adaptive Array Processing; 7. Cascade Preprocessors; 8. Random Search Algorithms; 9. Adaptive Algorithm Performance Summary; Part III - Advanced Topics; 10. Compensation of Adaptive Arrays 11. Direction of Arrival Estimation and Related Topics12. Recent Developments in Adaptive Arrays; Appendix A: Frequency Response Characteristics of Tapped-Delay Lines; Appendix B: Complex Envelope Notation; Appendix C: Convenient Formulas for Gradient Operations; Appendix D: Useful Matrix Relations and the Schwartz Inequality; Appendix E: Multivariate Gaussian Distributions; Appendix F: Geometric Aspects of Complex Vector Relationships; Appendix G: Eigenvalues and Eigenvectors; Appendix H: Selected Answers; Index
Sommario/riassunto	Introduction to Adaptive Arrays, 2nd Edition is organized as a tutorial, taking the reader by the hand and leading them through the maze of jargon that often surrounds this highly technical subject. It is easy to

read and easy to follow as fundamental concepts are introduced with examples before more current developments and techniques are introduced.
