



## Introduction to Adaptive Arrays (Electromagnetics and Radar)

By Robert A. Monzingo

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**Introduction to Adaptive Arrays (Electromagnetics and Radar)** By Robert A. Monzingo

This second edition is an extensive modernization of the bestselling introduction to the subject of adaptive array sensor systems. With the number of applications of adaptive array sensor systems growing each year, this look at the principles and fundamental techniques that are critical to these systems is more important than ever before. *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. Problems at the end of each chapter serve both instructors and professional readers by illustrating and extending the material presented in the text. Both students and practicing engineers will easily gain familiarity with the modern contribution that adaptive arrays have to offer practical signal reception systems.

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### **Editorial Review**

#### **About the Author**

Robert Monzingo received the B.S.E.E. degree from Stanford University, the M.S.E.E. degree from the University of Arizona, and the Sc.D. degree from Washington University, St. Louis. He has been active in the areas of automatic control, radar, and communications for many years and is presently associated with the Aerospace Corporation in El Segundo, CA as a Senior Engineering Specialist where he is engaged in work on adaptive arrays, GPS systems, and satellite communication systems.

Randy Haupt is a Fellow of the IEEE and Applied Computational Electromagnetics Society (ACES) and is a Senior Scientist at the Penn State Applied Research Lab. From 1999-2003 he was Professor and Department Head of ECE at Utah State University. He also was a Professor of EE at the Air Force Academy and the University of Nevada-Reno. He is a retired Lt. Col. from the US Air Force. He has many journal articles, conference publications, and book chapters to his credit and is the author of *Antenna Arrays: A Computational Approach* by Wiley (2010).

Thomas Miller currently works for Raytheon Corporation where he has been cited for leadership in advanced early warning surveillance radar and adaptive signal processing. He is the author and coauthor of multiple journal articles as well as contributor to several books.

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**Scott Bush:**

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