

ANGLE OF ARRIVAL ESTIMATION USING RADAR INTERFEROMETRY

E. JEFF HOLDER

Addressing the subject of radar target tracking, this book provides a comprehensive understanding of modern signal processing methods and aims to quantify interferometer angle estimation accuracy.

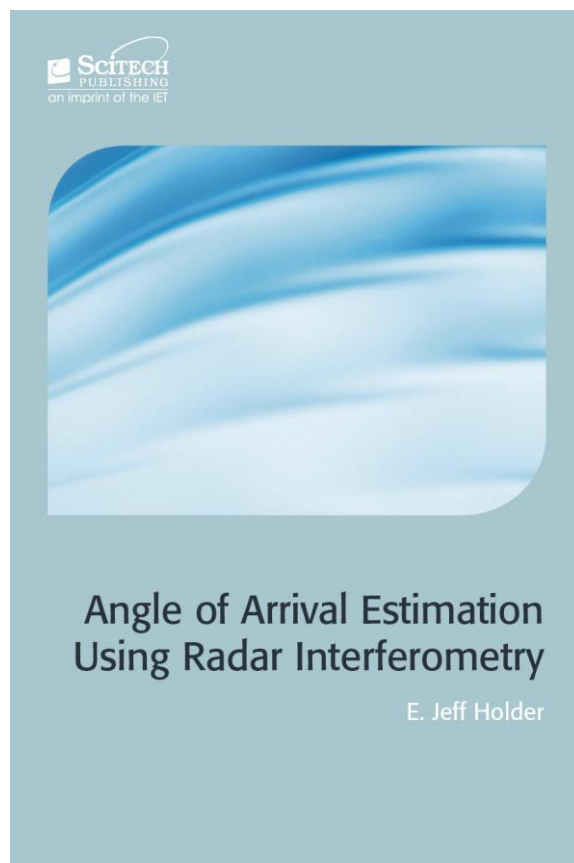
- Presents a comprehensive understanding of various radar interferometer architectures.
- Aims to quantify interferometer angle estimation accuracy.
- Featuring some new material and alternative derivations on radar target tracking, this book identifies and quantifies radar-based measurement errors on the performance of angle-of-arrival estimation.
- Includes a basic digital interferometer, a monopulse interferometer, an orthogonal interferometer and signal processing algorithms.
- By exploring interferometry and beyond, this book offers a unique perspective and an in depth look at the derivation of angle error equations for a radar interferometer.

READERSHIP

This book would suit practicing radar design engineers and researchers within both the radar community and the military industrial sector.

AUTHOR INFORMATION

Dr. E. Jeff Holder has worked in the field of radar interferometry for 20 years including a post in the Sensors and Electromagnetic Applications Laboratory of the Georgia Tech Research Institute, Georgia Institute of Technology University. He is also currently the President of Propagation Research Associates, Inc. (PRA) which was founded to develop innovative radar technology.



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