



Space-Time Adaptive Processing for Radar, Second Edition

By J.R. Guerci

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Space-time adaptive processing (STAP) is an exciting technology for advanced radar systems that allows for significant performance enhancements over conventional approaches. Based on a time-tested course taught in industry, government and academia, this second edition reviews basic STAP concepts and methods, placing emphasis on implementation in real-world systems. It addresses the needs of radar engineers who are seeking to apply effective STAP techniques to their systems, and serves as an excellent reference for non-radar specialists with an interest in the signal processing applications of STAP.

Engineers find the analysis tools they need to assess the impact of STAP on a variety of important radar applications. A toolkit of STAP algorithms and implementation techniques allows practitioners the flexibility of adapting the best methods to their application. In addition, this second edition adds brand new coverage on “STAP on Transmit” and “Knowledge-Aided STAP (KA-STAP).”

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Editorial Review

About the Author

J. R. Guerci is deputy director, special projects office for The Defense Advanced Research Projects Agency (DARPA). A Senior Member of the IEEE and a Member of the IEEE Radar Systems Panel, Dr. Guerci earned his Ph. D. in system engineering at the Polytechnic University, New York.

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