



# Fundamentals of Radar Signal Processing, Second Edition (McGraw-Hill Professional Engineering)

By Mark A. Richards

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**The most complete, current guide to the signal processing techniques essential to advanced radar systems**

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The methods and interpretations of linear systems, filtering, sampling, and Fourier analysis are used throughout to provide a unified tutorial approach. End-of-chapter problems reinforce the material covered. Developed over many years of academic and professional education, this authoritative resource is ideal for graduate students as well as practicing engineers.

*Fundamentals of Radar Signal Processing*, Second Edition, covers:

- Introduction to radar systems
- Signal models
- Pulsed radar data acquisition
- Radar waveforms
- Doppler processing
- Detection fundamentals
- Measurements and tracking
- Introduction to synthetic aperture imaging
- Introduction to beamforming and space-time adaptive processing

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About the Author

**Mark A. Richards, Ph.D.**, is Principal Research Engineer and Adjunct Professor, School of Electrical and Computer Engineering (ECE), Georgia Institute of Technology. He is engaged in academic and continuing education teaching and course development in the fields of digital signal processing and radar signal processing. Prior to joining ECE, Dr. Richards was a Principal Research Engineer and Chief of the Radar Systems Division and Head of the Signal Processing Branch in the Sensors and Electromagnetic Applications Laboratory of the Georgia Tech Research Institute.

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