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All in all, starting with the basics, this book by Richards is a pretty thorough coverage of Radar Signal Processing. If one wants to understand radar from a DSP perspective, first read Skolnik's "Introduction To Radar Systems" to get a basic understanding of how radar works. Then read this book by Richards to understand radar DSP.

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course is a thorough exploration for
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systems.

Fundamentals of Radar Signal
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Abstract: This book introduces the
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Fundamentals of Radar Signal Processing. Published by McGraw-Hill in 2005 and updated with a second edition in 2014, this is a text I authored based on the Georgia Tech graduate course ECE 6272 of the same name, as well as the Professional Education course also of the same name.

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Mark A Richards | ECE Faculty

The most complete, current guide to the signal processing techniques essential to advanced radar systems. Fully updated and expanded, *Fundamentals of Radar Signal Processing, Second Edition*, offers comprehensive coverage of the basic digital signal processing techniques and technologies on which virtually all modern radar systems rely, including target and interference models, matched filtering, waveform design, Doppler processing, threshold detection, and measurement accuracy.

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