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Written for graduate engineering students and working  
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All in all, starting with the basics, this book by Richards is a pretty

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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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**Abstract:** This book introduces the fundamental concepts of radar by building upon digital signal processing concepts. It provides a thorough covering of all of the basic radar topics, in addition to more advanced topics, such as CFAR detection, synthetic aperture radar (SAR), and space-time adaptive processing (STAP).

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The objective of the proposed course is to teach the fundamentals of modeling, filtering, and detecting radar targets from a digital signal processing point of view, with an emphasis on understanding common algorithms for processing radar signals. This course is the first of two closely related courses intended to be taught sequentially.

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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



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the same name, as well as the Professional Education course also of the same name.

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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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Education, consulting, and expert witness services in radar signal processing. Over 30 years of research experience in radar signal processing, high performance computing, and digital signal processing; Author and editor of two of the leading textbooks in radar basics and radar signal processing

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