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tracking that are at the core of most modern radar systems. Fundamentals of Radar Signal Processing | GTPE 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). Fundamentals of Radar Signal Processing (Richards, M.A ...About the Book Fundamentals of Radar Signal Processing (FRSP) provides in-depth coverage of fundamental topics in radar signal processing from a digital signal processing perspective. The techniques of linear systems, filtering, sampling, and Fourier analysis techniques and interpretations are used throughout to provide a modern and unified tutorial approach. Radar Signal Processing 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. Radar Signal Processing: Fundamentals | GTPE About the Book Fundamentals of Radar Signal Processing (FRSP) provides in-depth coverage of fundamental topics in radar signal processing from a digital signal processing perspective. The techniques of linear systems, filtering, sampling, and Fourier analysis techniques and interpretations are used throughout to provide a modern and unified tutorial approach. radarsp.com Fundamentals of Radar Signal Processing (FRSP) provides in-depth coverage of fundamental topics in radar signal processing from a digital signal processing perspective. The techniques of linear systems, filtering, sampling, and Fourier analysis techniques and interpretations are used throughout to provide a modern and unified tutorial approach. radarsignalprocessing.com, radarsp.com - Home 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. 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. Fundamentals of Radar Signal Processing, Second Edition 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 Dr. Mark A. Richards - Dr. Mark A. Richards 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,

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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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**Fundamentals of Radar Signal Processing (FRSP)** provides in-depth coverage of fundamental topics in radar signal processing from a digital signal processing perspective. The techniques of linear systems, filtering, sampling, and Fourier analysis techniques and interpretations are used throughout to provide a modern and unified tutorial approach.

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**Fundamentals of Radar Signal Processing, Second Edition** **Fundamentals of Radar Signal Processing Course Description** This course is a thorough exploration for engineers and scientists of the foundational signal processing methods for interference suppression, detection, imaging, and tracking that are at the core of most modern radar systems.

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*Dr. Mark A. Richards - Dr. Mark A. Richards*

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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**Radar Signal Processing**

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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