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SYSTEM - RADAR SIGNAL

PROCESSING SYSTEM | Real Time

System(RTS) *ELINT* -

Recognizing Advanced Radar

Signals Fundamentals of

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engineering students and
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technologies on which
virtually all modern radar
systems rely, including
target and interference
models, matched filtering,
waveform design, Doppler
processing, threshold
detection, and measurement

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All in all, starting with
the basics, this book by
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thorough coverage of Radar
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first read Skolnik's
"Introduction To Radar
Systems" to get a basic
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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

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Abstract: This book introduces the fundamental concepts of radar by

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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

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(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

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Fourier analysis techniques and interpretations are used throughout to provide a modern and unified tutorial approach.

Radar Signal Processing

The objective of the

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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

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processing radar signals.

This course is the first of two closely related courses intended to be taught sequentially.

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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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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**

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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,

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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,

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waveform design, Doppler processing, threshold detection, and measurement accuracy.

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Education, consulting, and

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**Dr. Mark A. Richards - Dr.
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interference models, matched filtering, waveform design, Doppler processing, threshold detection, and measurement accuracy.

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As a pulse-to-pulse modulation pattern, a radar signal pattern is decomposed into a relevant arrangement of sequences of pulses where each pulse is defined by continuous features and each

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Spatial resolution of a conventional radar is usually offset by by increasing its transmit signal bandwidth, coherent processing interval (CPI) or frame time, and antenna...

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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:

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