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Lecture #8 | Alan Fenn FMCW
Radars Lecture 2: The Phase of
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range and velocity measurements
using FM chirp signals

FMCW Radar Analysis and Signal
Simulation *Statistics of Radar*
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Description. Radar Signals: An

Introduction to Theory and

Application introduces the reader

to the basic theory and

application of radar signals that

are designated as large time-

bandwidth or pulse-compression

waveforms. Topics covered

include matched filtering and

pulse compression; optimum

predetection processing; the

radar ambiguity function; and the

linear frequency modulation

waveform and matched filter.

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This book is devoted to the
development of the basic theory
and application of radar signals
that are designated as large time-

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bandwidth or pulse compression waveforms. This class of signals provides one of the cornerstones for modern radar technology, and yet there has been no single treatment of this subject at an introductory level from which the graduate student

Radar Signals. An Introduction to Theory and Application ...

Radar Signals: An Introduction to Theory and Application. Basic elements of matched filtering and pulse compression optimum pre-detection processing matched-filter waveform considerations the measurement accuracies of matched-filter radar signals the design of dispersive delay functions ultrasonic delay lines microwave and optical matched-

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The radar signal in the frequency domain Pure CW radars appear as a single line on a Spectrum analyser display and when modulated with other sinusoidal signals, the spectrum differs little from that obtained with standard analogue modulation schemes used in communications systems, such as Frequency Modulation and consist of the carrier plus a relatively small number of sidebands .

Radar signal characteristics -
Wikipedia

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By Seiichi Morimura, Radar
Signals An Introduction To Theory
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introduction to theory and
application introduces the reader
to the basic theory and
application of radar signals that
are designated as large time
bandwidth or pulse compression
waveforms

Radar Signals An Introduction To
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The concept of radar cross-
section, waveform design,
antennas, transmitter and
receiver characteristics, and the
detection of radar signals in the
presence of noise are presented.
Some radars are required to
detect small targets in the
presence of much larger radar

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Radar Signals: An Introduction to
Theory and Application introduces
the reader to the basic theory and
application of radar signals that
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radar which use noise like
waveform to illuminate the target
the book includes an introduction
to basic radar theory starting
from classical pulse radar signal
compression and wave radar
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Signal Processing In Noise
Waveform Radar Artech House ...
Description. Radar Signals: An
Introduction to Theory and
Application introduces the reader
to the basic theory and
application of radar signals that

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are designated as large time-bandwidth or pulse-compression waveforms. Topics covered include matched filtering and pulse compression; optimum predetection processing; the radar ambiguity function; and the linear frequency modulation waveform and matched filter.

Radar Signals - 1st Edition
Radar Signals: An Introduction to Theory and Application introduces the reader to the basic theory and application of radar signals that are designated as large time-bandwidth or pulse-compression waveforms. Topics covered include matched filtering and pulse compression; optimum predetection processing; the radar ambiguity function; and the

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Radar Signals: An Introduction to Theory and Application ...

Radar signals: an introduction to theory and application Electrical science series Electrical science, a series of monograph and texts: Authors: Charles Emerson Cook, Marvin Bernfeld: Edition: 7:...

Radar signals: an introduction to theory and application ...

In addition to the radar work the application of FMCW signals to radio propagation measurements and channel characterisation in the 60 GHz and 2-6 GHz frequency bands in indoor and outdoor environments is described.

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