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Chapters 9-11 wrap up this edition of Radar Systems by discussing

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the Radar Antenna,
Transmitter, and
Receiver respectively.
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If one actually wants to learn the theory behind radar receivers, I would recommend the mathematically detailed books by Van Trees: Volume I on Detection and Estimation, and Volume III on Radar Signal Processing.

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sequential lobing

radar, described in

Lecture 9, uses a time

sequence of beams

directed around the

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Skolnik) is still king.

This book does not get
into the detail of the
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However, someone just
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find the extreme detail
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development of new
radar capabilities and
continual

improvements to the
technology and
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addition and updating
of the following topics
for the third edition:
digital technology,
automatic detection
and tracking, doppler
technology, airborne
radar, and target

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Serious developmental work on radar began in the 1930s, but the basic idea of radar had its origins in the classical experiments on electromagnetic radiation conducted by German physicist Heinrich Hertz during the late 1880s. Hertz

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set out to verify
experimentally the
earlier theoretical work
of Scottish physicist
James Clerk Maxwell.

Radar - History of radar | Britannica

Coordinate Systems •

Radar coordinate
systems spherical
polar: (r, θ, ϕ)

azimuth/elevation:

(Az, El) or • The radar is
located at the origin of
the coordinate system;
the Earth's surface lies

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in the x-y plane. •

Azimuth (α) is

generally measured

clockwise from a

reference (like a

compass) but the

spherical system

azimuth angle (φ) is ...

Radar Fundamentals

- Faculty

Given below are 6

major parts of a RADAR

System: A Transmitter:

It can be a power

amplifier like a

Klystron, Travelling

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Wave Tube or a power
Oscillator like a
Magnetron.

Waveguides: The
waveguides are
transmission lines for
transmission of the
RADAR signals.

Antenna: The antenna
used can be a ...

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technology, automatic

detection and tracking,

Doppler technology,
airborne radar, target.

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forms is developed and

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evaluate, or apply
radar technology in
civilian or military
systems.

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Chapters 9-11 wrap up

this edition of Radar

Systems by discussing

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If one actually wants to

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recommend the
mathematically
detailed books by Van
Trees: Volume I on
Detection and
Estimation, and
Volume III on Radar
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The textbook for the
course is Merrill
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6th Edition, McGraw Hill, 2001. Each lecture varies in length from 30 minutes to 2 hours, but most are somewhat over an hour. The videostream of each topic is segmented into pieces of approximately 20 to 30 minutes. This course is hosted on another site.

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The term RADAR was coined in 1940 by the United States Navy as an acronym for "radio detection and ranging". The term radar has since entered English and other languages as a common noun, losing all capitalization. During RAF RADAR courses in 1954/5 at Yatesbury Training Camp "radio azimuth direction and ranging" was suggested.

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