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ability to use it does not guarantee success.

One must also:

Understand radar

operations and design

philosophy. Know how

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parameters to meet

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files and hands-on  
simulation experience

needed to design and  
analyze radar systems.

Part I forms a  
comprehensive  
description of radar  
systems, their analysis,  
and the design  
process.

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Toolbox can be used to  
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radar system -

generate a transmitted  
waveform, simulate the  
target return, and then  
process the received  
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Design. Written as a  
reference for radar  
engineers, this text

presents the theory,  
design process, and  
analysis of radar

systems. Topics  
covered include radar  
parameters and design  
requirements; trade-off

analysis for radar  
sizing, modes of  
operations, frequency  
selection, and

waveforms and signal  
processing.

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philosophy O Know  
how to select the radar  
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requirements O Be  
able to perform  
detailed trade-off  
analysis in the context  
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of operation, frequency  
selection, waveforms,  
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This model shows how

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to simulate a key multi-discipline design problem from the Aerospace Defense industry sector.

## **Radar Tracking System - MATLAB & Simulink - MathWorks**

This repo is built on MATLAB code provided for the book "MATLAB simulations for radar systems design" by Mahafza & Elsherbeni. The MATLAB files can

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This thesis further develops a method from ongoing thesis projects with the goal of generating images using synthetic aperture radar (SAR) simulations coded in MATLAB. The project is supervised by Dr. John Saghri and sponsored by Raytheon Space and

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**Synthetic Aperture  
Radar Imaging  
Simulated in  
MATLAB**

This example shows how to set up a radar system simulation consisting of a transmitter, a channel with a target, and a receiver. For the Aerospace Defense industry, this is an important multi-discipline problem. RF

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Blockset is used for modeling the RF transmitter and receiver sections.

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