

## Matlab Simulations Radar Systems Design

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?MATLAB Simulations for Radar Systems Design? is divided into two parts: Part I provides a comprehensive description of radar systems, analyses and design. A design case study, which is carried throughout the text, is introduced in Chapter 1. In each chapter the authors™ view of how to design the case-study radar is presented based on the theory covered up to that point in the book. As

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### MATLAB Simulations for Radar Systems Design

Simulation is integral to the successful design of modern radar systems, and there is arguably no better software for this purpose than MATLAB. But software and the ability to use it does not guarantee success. One must also: Understand radar operations and design philosophy. Know how to select the radar parameters to meet the design req

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Radar system design, simulation, and analysis is complex because the design space spans the digital, analog, and RF domains. These domains extend across the complete signal chain, from the antenna array, to radar signal processing algorithms, to data processing and control. The resulting system level complexity drives the need for modeling and simulation at all stages of the development cycle.

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### Radar System Design - MATLAB & Simulink

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This repo is built on MATLAB code provided for the book "MATLAB simulations for radar systems design" by Mahafza & Elsherbeni. The MATLAB files can be downloaded at <https://www.crcpress.com/MATLAB-Simulations-for-Radar-Systems-Design/Mahafza-Elsherbeni/p/book/9781584883920> under the Resource/Downloads/Uploads tab. The provision of the source MATLAB code for free is gratefully acknowledged.

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GitHub - AshivDhondea/simulations\_radar\_systems\_design: A ...

The design goal of this pulse radar system is to detect non-fluctuating targets with at least one square meter radar cross section (RCS) at a distance up to 5000 meters from the radar with a range resolution of 50 meters. The desired performance index is a probability of detection ( $P_d$ ) of 0.9 and probability of false alarm ( $P_{fa}$ ) below  $1e-6$ .

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Designing a Basic Monostatic Pulse Radar - MATLAB ...

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MAHAFZA RADAR MATLAB PDF - reepro.info

Much of this book covers the same material as the authors' "Radar Systems Analysis and Design Using Matlab". I would recommend this book instead of (but not in addition to) that one. The Matlab code is freely available from the publisher's web site. It contains a few calls to functions that are not in the basic Matlab package.

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