

Matlab Simulations Radar Systems Design

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fMATLAB Simulations for Radar Systems DesignfI 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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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.

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.

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 (Pd) of 0.9 and probability of false alarm (Pfa) below 1e-6.

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MAHAFZA RADAR MATLAB PDF - reepro.info
Much of this book covers the same material as the authors' "Radar Systems Analysys and Design Using Matalb". 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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