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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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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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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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