



Computer Simulation of Aerial Target Radar Scattering, Recognition, Detection, and Tracking, CD-ROM plus User's Manual

By S.A. Gorshkov, S.P. Leshchenko, V.M. Olenko, S. Yu. Sedyshev, Ya. D. Shirman

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This powerful software package reconstructs real flight situations and provides a simple and effective way of accumulating the backscattering characteristics of 11 types of aerial targets for both narrow-band and wide-band probing. These characteristics provide critical information for radar recognition, detection and tracking investigations. It utilizes the simplest component's method to quickly calculate backscattered signals at the output of amplitude and phase detectors in the X, C, S, and L bands. Also, the software allows the creation of new target models using the "target editor" program included. this package. Considering the shadowing and secondary radiation effects, the software takes into account the reflective properties of Tu-16, B-52, B-1B, F-15, Tornado, Mig-21 and An-26 aircraft; AH-64 helicopters; ALCM and GLCM missiles; and GLCM decoy-missiles. The software accounts for target motion in different weather conditions and various forms of illumination with the chirp, multi-frequency and narrowband signals.

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