

Abstract

Nowadays, radars are widely used specially in systems which track moving objects. These systems usually alarm when a moving object is detected. Since these alarms are geared to defensive affairs, it is vital for these systems to work properly. But as any other system in communications field, additive noise may cause these systems to generate a false alarm.

A solution to overcome noise problem in radar systems and helping them work correctly is called CPACS (Coded Pulse Anti-Clutter System). This thesis simulates systems based on CPACS. The simulation has performed by MATLAB software. It must be noticed that because the theoretical solution to CPACS has not been achieved yet, simulation play an important role in understating and developing these systems.