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with air mass, not Newtonian mechanics, so the locking criteria are not usually used for weather radars. Pulse-Doppler signal processing selectively eliminates low-speed reflections, so there are no detections below the speed threshold. This eliminates terrain, weather, biology and mechanical interference, with the exception of a lure aircraft. Doppler's target signal from detection is converted from a frequency domain back to a time domain sound for a track operator on some radar systems. The operator uses this sound for passively classifying targets such as helicopter recognition and electronic interference. Helicopters special attention is required for aircraft with large moving parts because the Pulse-Doppler radar works like a phase loop. Blade driving tips near the speed of sound produce the only signal that can be detected when the helicopter moves slowly near the terrain and weather. Helicopters appear as a fast-pulsating noise receiver, except for a clear, clutter-free environment. A beep is made for passive identification of the type of airborne object. The microwave change in the frequency of dopplers produced by the motion reflector falls into the sound range for humans (20 - 20,000 Hz), which is used for target classification in addition to the types of conventional radar display used for this purpose, such as A-scope, B-scope, C-scope and RHI indicator. The human ear may be able to tell the difference better than electronic equipment. A special mode is required, as the feedback information about Doppler's speed should not be related to radial motion so that the system can go from scanning to tracking without blocking. Similar methods are needed to develop tracked information to interfere with signals and interference that cannot meet the lock criteria. The Pulse-Doppler radar must be multi-stage to handle the aircraft's rotation and crossing the trajectory. Once in track mode, pulse-doppler radar should include a way to change Doppler filtering for for space surrounding the track when the radial speed drops below the minimum detection rate. The doppler filter adjustment should be related to the radar track function to automatically adjust the Doppler's rejection rate within the amount of space surrounding the track. Tracking will stop without this function because the target signal will otherwise be rejected by the Doppler filter when the radial speed approaches zero because there is no change in frequency. Multidimensional work can also include continuous wave illumination for semi-active radar homing. See also the characteristics of the radar (the basis of radar) Doppler radar (non-pulse; used for navigation systems) Meteorological radar (pulse with doppler processing) Continuous-wave radar (non-pulse, pure Doppler processing) fm-cw radar (non-pulse, swept frequency, range and Dopler processing) which highlights the benefits of using Pulse-Doppler radar handout technology from the Introduction to Principles and Application of Radar Course at the University of Iowa Modern Radar Systems Hamish Meikle (ISBN 1-58053-294-2) Advanced Radar Techniques and Systems edited by Gaspar Galati (ISBN 0-86341-172-X Links Tom 141. P17. Michael Hensch, American Institute of Aeronautics and Astronautics. American Institute of Aeronautics and Astronautics, 1992 - AN/APH-174/186 Multi-stage radar. Raytheon. Liu Liang; Popescu, Michael; Scobic, Marjorie; Ranz, Marilyn; Yardibi, Tariq; Cuddihy, Paul (2011). Automatic detection of a fall based on the Doppler signature radar movement. 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