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Radar cross-section (RCS) is a measure of how detectable an object is by radar.Therefore, it is called electromagnetic signature of the object. A larger RCS indicates that an object is more easily detected.. An object reflects a limited amount of radar energy back to the source.

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The concealment of aircraft from radar sources, or stealth, is achieved through shaping, radar absorbing coatings, engineered materials, or plasma, etc. Plasma-based stealth is a radar cross section (RCS) reduction technique associated with the reflection and absorption of incident electromagnetic (EM) waves by the plasma layer surrounding the structure.

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4 Active Radar Cross Section Reduction comes from antennas/sensors mounted over the vehicle. These sensors and antennas might add to the RF signatures of the vehicle. 1.3 Radar cross section of an aircraft RCS is an estimate of observability of a target, which in turn, depends on its external features and EM properties.

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