

Active Radar Cross Section Reduction Theory And Applications

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Abstract. The research performed in this paper suggests that the radar cross section of an arbitrarily shaped object can be reduced by canceling the scattering from the object with the radiation from an antenna (implemented here as a microstrip antenna) placed on the surface of the object. Assuming that the direction of arrival of the incident signal is known, the radiation from the defending antenna can be adjusted in real time to cancel the scattering from the object in order to produce ...

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This book discusses the active and passive radar cross section (RCS) estimation and techniques to examine the low observable aerospace platforms. It begins with the fundamentals of RCS, followed by the dielectric, magnetic and metamaterials parameters of the constituent materials and then explains various methods and the emerging trends followed in this area of study.

Active Radar Cross Section Reduction by Hema Singh

1.ntrouction to Radar Cross Section Reduction 1 1.1 Introduction 1 1.2 The concept of target signatures 3 1.3 Radar cross section of an aircraft 4 .3.11 Ray-tracing techniques 5 1.4CS reduction R 7.4.11 RCS reduction by shaping 8 1.4.2 RCS reduction by RAM 9 1.4.3 Active RCS reduction 9 1.5rganisation of the book O 11

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1. Introduction to radar cross section reduction--2. RAM analysis for low observable platforms--3. RCS of phased antenna arrays--4. Active RCS reduction in phased arrays--5. Mutual coupling effects in phased arrays--6. RCS of dipole array including mutual coupling effects--7. Performance of sidelobe cancellers in active RCS reduction--8.

Active Radar Cross Section Reduction : Theory and ...

In this article, a comprehensive review of published techniques for reducing radar cross section (RCS) of a target in various military and industrial applications is presented. This review contains the developments in this field over the last 24 years.

Passive techniques for target radar cross section ...

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Active Radar Cross Section Reduction: Theory and ...

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.

Radar cross-section - Wikipedia

An active cancellation system for radar cross section reduction uses the coherent signal interference. To avoid target detection, the target must transmit a cancellation signal at the same time with an incoming pulse, providing the required phase and amplitude to cancel the reflected energy from detecting radar.

Active Cancellation System for Radar Cross Section Reduction

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Active Radar Cross Section Reduction: Theory and ...

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