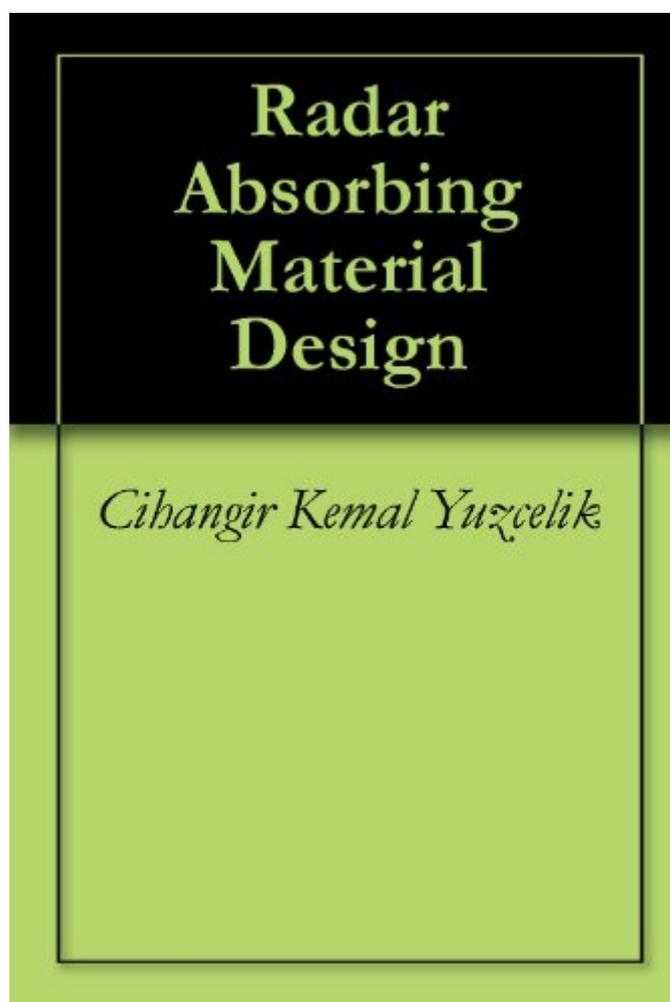


The book was found

Radar Absorbing Material Design



Synopsis

Low observable platforms have extremely low radar cross section specifications that cannot be achieved by shaping alone. The application of radar absorbing material is necessary, in which case the appropriate constitutive parameters and thickness must be selected. The universal design chart gives combinations of $\hat{\epsilon}$ and $\hat{\mu}$, and that provide zero specular reflection at normal incidence. Three different backing materials were used to generate the charts: (1) perfect electric conductor, (2) free space, and (3) graphite. One can pick the required values from the charts for an ideal zero reflection dielectric/magnetic layer. The extension to other materials is straightforward. Numerical simulations of coated plates were performed to estimate the effectiveness of the absorbing layers in reducing radar cross section. The reduction in monostatic radar cross section value is shown by plotting the radar cross section of the plate with and without radar absorbing material.

Book Information

File Size: 1510 KB

Print Length: 83 pages

Simultaneous Device Usage: Unlimited

Publication Date: March 17, 2012

Sold by: Digital Services LLC

Language: English

ASIN: B007M2I7FO

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Enabled

Best Sellers Rank: #1,252,002 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #20

in Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Electrical & Electronics > Antennas & Radar #198 in Books > Engineering & Transportation > Engineering > Telecommunications & Sensors > Radar #342 in Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Materials Science

[Download to continue reading...](#)

Radar Absorbing Material Design Radar Equations for Modern Radar (Artech House Radar)

Multiple-Target Tracking with Radar Applications (Artech House Radar Library) (Artech House

Radar Library (Hardcover)) Stimson's Introduction to Airborne Radar (Electromagnetics and Radar)
Police Radar Basics: Everything Every Driver, and the Police, should know about Traffic Speed
Radar Introduction to Radar Target Recognition (Radar, Sonar & Navigation) Angle of Arrival
Estimation Using Radar Interferometry (Electromagnetics and Radar) The Antiques Magpie: A
Fascinating Compendium of Absorbing History, Stories, Facts and Anecdotes from the World of
Antiques Radiative Transfer in Scattering and Absorbing Atmospheres: Standard Computational
Procedures (Studies in geophysical optics and remote sensing) Radar RF Circuit Design Microstrip
and Printed Antenna Design (Electromagnetics and Radar) WordPress Web Design Made Easy:
Intermediate Level - (Part II of Wordpress Made Easy Series): Designed with the latest version of
WordPress 4.5.3 - (Intermediate Level) - Also includes bonus material Material Innovation:
Packaging Design Material Design Feng Shui: Wellness and Peace- Interior Design, Home
Decorating and Home Design (peace, home design, feng shui, home, design, home decor,
prosperity) Detection and Estimation for Communication and Radar Systems Ew 101: A First
Course in Electronic Warfare (Artech House Radar Library (Hardcover)) Atmospheric Radar:
Application and Science of MST Radars in the Earth's Mesosphere, Stratosphere, Troposphere,
and Weakly Ionized Regions Microwave Transmission Line Impedance Data (Electromagnetics and
Radar) Synthetic Aperture Radar

[Dmca](#)