


# Radar and Laser Cross Section Engineering, Second Edition (Aiaa Education Series)

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There have been many new developments in the ten years since the first edition of Radar and Laser Cross Section Engineering was published. Stealth technology is now an important consideration in the design of all types of platforms. The second edition includes a more extensive introduction that covers the important aspects of stealth technology and the unique tradeoffs involved in stealth design. Prediction, reduction, and measurement of electromagnetic scattering from complex three-dimensional targets remains the primary emphasis of this text, developed by the author from courses taught at the Naval Postgraduate School. New topics on computational methods like the finite element method and the finite integration technique are covered, as well as new areas in the application of radar absorbing material and artificial metamaterials. Matlab [registered] software, homework problems, and a solution manual (available to instructors) supplement the text. Written as an instructional text, this book is recommended for upper-level undergraduate and graduate students. introduction to the physics and mathematics of radar cross section in order to better understand the interdisciplinary aspects of stealth. Matlab is a registered trademark of The MathWorks, Inc.

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**Radar and Laser Cross Section Engineering, Second Edition (Aiaa Education Series) By D. Jenn Bibliography**

- Sales Rank: #2542478 in Books
- Published on: 2005-08-20
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x 6.25" w x 1.00" l, 2.21 pounds
- Binding: Hardcover
- 505 pages

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## Editorial Review

About the Author
David C. Jenn received the Ph.D. degree in electrical engineering from the University of Southern California in 1987. From 1976 to 1990 he worked in the defense industry. Since 1990 he has been with the Department of Electrical and Computer Engineering at the Naval Postgraduate School where he is a Professor. His research has focused on the design and analysis of high-performance phased array antennas for radar and communication systems, electromagnetic wave propagation, and radar cross section analysis.

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