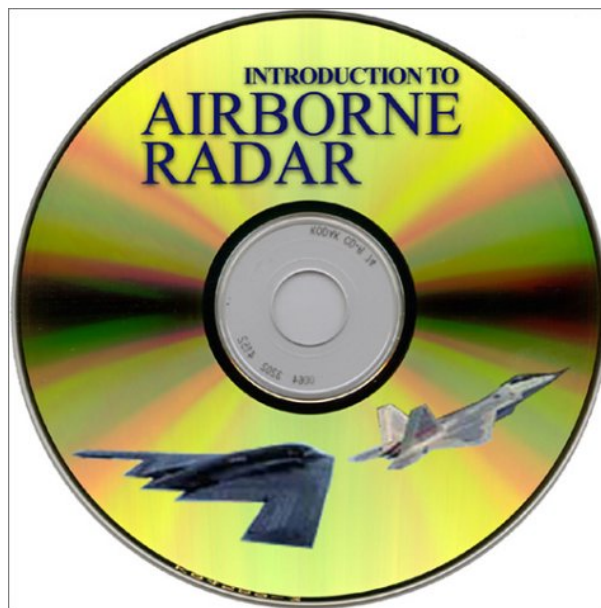


INTRODUCTION TO AIRBORNE RADAR (AEROSPACE & RADAR SYSTEMS (SOFTWARE)) BY GEORGE W. STIMSON



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Review

"Having a background in both combat aviation and physics, I can say without a doubt that there is no other text that allows students with such diverse backgrounds to understand the principles behind the tactical use of radar as quickly and thoroughly as does **Introduction to Airborne Radar**. The book's conceptual approach is it's unique quality."

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About the Author

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The completely rewritten and revised Second Edition updates a famous work originally published by the Hughes Aircraft Company. Much more than a simple introduction, the book is actually a history, reference, tech manual, and textbook rolled into one beautiful illustrated volume, packed with full color photos, drawings, tables and charts, plus knowledgeable, informative text.

Twelve new chapters cover all the sophisticated stealth radar techniques. Over 90% of the illustrations are in color as the book describes over a dozen airborne radar systems currently in service, from long-range surveillance to environmental monitoring. The first three chapters can be used as a stand-alone briefing on modern radar for readers who need a quick introduction.

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Most helpful customer reviews

0 of 0 people found the following review helpful.

Excellent recommendation.

By Katzohki

This book is very informative and gives you a good introduction to the inner workings of RADAR systems.

One of my professors at college recommended this book to me when I mentioned that I wanted to pursue RADAR electronics. It is easy to understand for a technically minded person, but might be hard to follow if you have no technical background. There are extra sections that go further into depth about certain principals that you will have to be up to date on your calculus to follow.

The illustrations of historically significant (to RADAR) aircraft are very enjoyable and include brief histories as well.

Makes a fantastic coffee table book for techno geeks like myself!

12 of 12 people found the following review helpful.

No other introduction needed

By Brett Williams

Stimson's second edition is a slight improvement over his first. "Slight" because improving near perfection remains a difficult task. Nowhere else is such clarity apparent in the complex field of radars. Thanks to Stimson this subject could be understood by my grandmother. If only Stimson would carry edition three to the next echelon, extending depth and detail to levels required to actually build and make a working, modern radar. Like applying his talent to the intricacies of adaptive processing, a completion of SAR computational demands and processes (vs. stopping at the digital filter FFT), nuances of ever more important phase noise, test, measurement and producibility of radar systems that shouldn't cost a million dollars per copy, but a fraction of this with proper processes and synergistic integration vs. the "Mister Potato Head" approach of slapping together the latest-greatest-of-every-subsystem-technology still practiced by engineers in just about everything. Unfortunately this may be our last version from Stimson as he's no longer a young man and such efforts are monumental. Even so, he's made himself a national asset creating this magnificent edition, probably lasting longer than any of us in the field today.

8 of 9 people found the following review helpful.

I'm not a radar expert, but with this book I COULD BE!!!

By Joseph T. Page II

Mr. Stimson's book, "Introduction to Airborne Radar (2nd Edition)," has been one of my most treasured purchases from my graduate school education. I expected a book filled with equations and bad graphs and tables - I was wonderfully surprised by the high quality graphics, easy to follow mathematical treatment, and historical views into past and present radar systems.

I recommend this text to anyone interested in radar - engineering students to laypersons wanting to know more. This book has special meaning to CSPs (Certified Space Professionals) that is not quite apparent - since radar is used heavily to track space vehicles, and space-based radar is a capability the U.S. military wants, it is common-sense that CSPs should know a bit more about radar than "It's very cool and works really well..."

The basics of radar covered is great, along with the different characteristics (PRF, frequencies, etc.). Some areas may not seem applicable (two airborne targets moving towards each other) until the reader extends their imagination to the High Ground (a RV trying to be hit by a moving 'kill-vehicle'). More technical radar textbooks exist, but Mr. Stimson's should have a place reserved on your shelf.

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