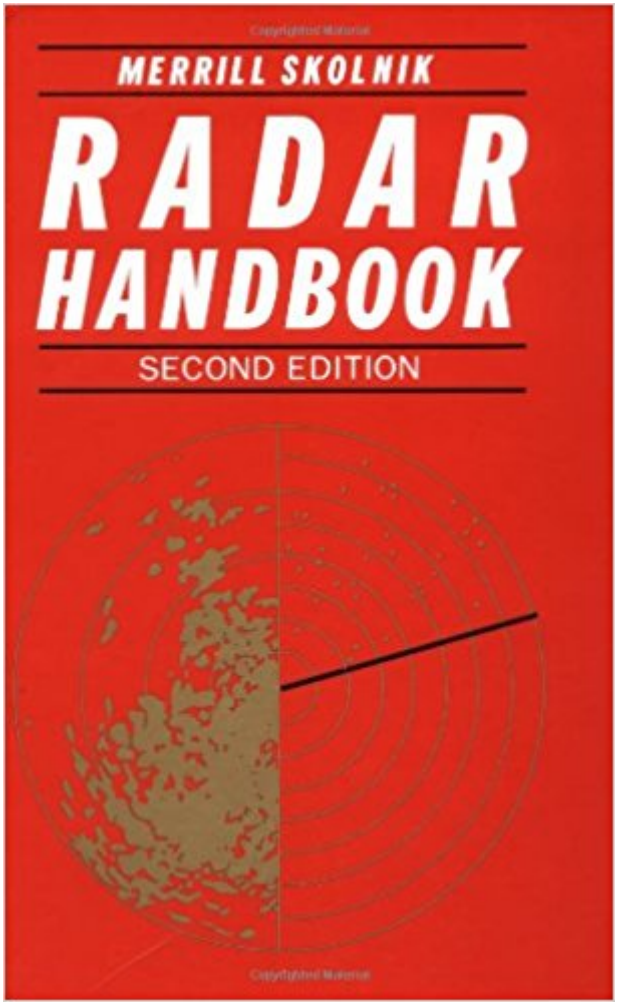
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Radar Handbook



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Synopsis

Thoroughly revised to reflect advances made in radar technology over the past two decades, this second edition of the "Radar Handbook" will be welcomed by radar engineers, designers, and technicians the world over. Growth in radar capability and applications has been-and continues to be -prodigious, and the new material (nearly 75 percent) in this volume reflects that. The handbook covers all the new developments in radar, as well as the fundamentals, making it the standard reference. Each of the 25 chapters is written by an expert or experts in the field; more than half of the authors are new to this edition. A sampling of the many new radar advances includes systems such as: HF over-the-horizon radar for long-range detection; space-based radar for global coverage; doppler weather radar for improved weather forecasting; radar guidance of missiles; and 3D air surveillance radar. It includes technology such as solid-state transmitters, digital signal processing for implementing doppler filters for moving-target indiction, CFAR, and automatic detection and tracking. The book covers: target and clutter cross-section characteristics, prediction, and measurement; antenna technology ranging from modern reflector antennas to electronically steered phased arrays, low-sidelobe antennas, and adaptive antennas; and, airborne pulse doppler, AMTI, and MTI radar methods for the detection of aircraft in the midst of much larger clutter echoes. With all this and much, much more, including discussions of modern radar transmitters and receivers not available elsewhere, the "Radar Handbook" belongs on the bookshelf of every radar engineer.

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The Standard Reference on Radar Technology--Completely Revised and Updated Thoroughly revised to reflect advances made in radar technology over the past two decades, this second edition of the Radar Handbook will be welcomed by radar engineers, designers, and technicians the world over. Growth in radar capability and applications has been-and continues to be--prodigious, and the new material (nearly 75 percent) in this volume reflects that. The handbook covers all the new developments in radar, as well as the fundamentals, making it the standard reference. Each of the 25 chapters is written by an expert or experts in the field; more than half of the authors are new to this edition. A sampling of the many new radar advances includes: Systems such as HF over-the-horizon radar for long-range detection, space-based radar for global coverage, doppler weather radar for improved weather forecasting, radar guidance of missiles, and 3D air surveillance radar. Technology such as solid-state transmitters, digital signal processing for implementing doppler filters for moving-target indiction, CFAR, and automatic detection and tracking. Target and clutter cross-section characteristics, prediction, and measurement. Antenna technology ranging from modern reflector antennas to electronically steered phased arrays, low-sidelobe antennas, and adaptive antennas. Airborne pulse doppler, AMTI, and MTI radar methods for the detection of aircraft in the midst of much larger clutter echoes. With all this and much, much more, including discussions of modern radar transmitters and receivers not available elsewhere, the Radar Handbook belongs on the bookshelf of every radar engineer.

About the Editor in Chief Merrill I. Skolnik, known worldwide for his leadership in radar research and development, has been affiliated with the Johns Hopkins Radiation Laboratory, Sylvania, MIT Lincoln Laboratory, the Research Division of Electronic Communications Inc., the Institute for Defense Analyses, and the U.S. Naval Research Laboratory. He received his doctorate in electrical engineering from Johns Hopkins University, where he also earned B.E. and M.S.E. degrees. He is the author of the leading college textbook on radar, Introduction to Radar Systems (McGraw-Hill), now in its second edition, and the editor of Radar Applications. He is a member of the National Academy of Engineering, a Fellow of the IEEE, and has served as editor of the Proceedings of the IEEE.

I was at NRL during Skolnik’s tenure, and this book was one of the publications we kept on hand. While details of technology have progressed, the underlying principles are still just as valid. This is one of those reference standards everyone in the field should have access to. It was nice to pick it up used at a bargain price, but someone promptly made off with it, and I don’t know if I’ll see it again

or not. ;) Anyway, its a good reference, but you might want to hide it so it doesn't sprout legs. I'll be glad when mine returns from going on walkabout.NRLTEW.

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