



# Radar Handbook

*Merrill I. Skolnik*

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## **Radar Handbook** Merrill I. Skolnik

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 indication, 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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