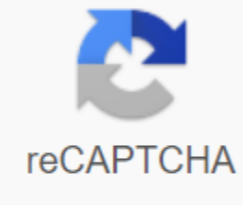




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Moving to Main Content Carefully reviewed to reflect the progress made in radar technology over the past two decades, this second edition of the Radar Guide will be welcomed by radar engineers, designers, and technicians around the world. The increase in radar capabilities and applications is and continues to be astounding, and the new material (nearly 75 percent) in this volume reflects this. The guide covers all new radar achievements as well as the basics, making it a standard reference. Each of the 25 chapters is written by an expert or expert in this field; more than half of the authors are new in this edition. Sampling of many new radar advances includes systems such as: HF over the horizon for radar remote detection; space-based radar for global coverage; doppler weather radar for improved weather forecasting; missile radar control; and 3D aerial surveillance radar. It includes technology such as solid state transmitters, digital signal processing to implement doppler filters for moving target nediction, CFAR, and automatic detection and tracking. The book covers: target and clutter cross-sectional characteristics, forecasting and measurement; aerial technology, from modern reflector antennas to electronically steered beaded arrays, low side klobes antennae and adaptive antennas; and, in the air pulse doppler, AMTI, and MTI radar techniques to detect aircraft in the middle of much greater clutter echoes. With all this and much, much more, including discussions about modern radar transmitters and receivers not available elsewhere, the Radar Manual belongs to the bookshelf of every radar engineer. The standard reference to radar technology in a fully revised and updated RADAR MANUAL Second Edition Carefully revised to reflect the progress made in radar technology over the past two decades, this second edition radar manual will be welcomed by radar engineers, designers, and technicians around the world. The increase in radar capabilities and applications is and continues to be astounding, and the new material (almost 75 percent) in this volume reflects this. The guide covers all new radar achievements as well as the basics, making it a standard reference. Each of the 25 chapters is written by an expert or expert in this field; more than half of the authors are new to this Sampling of many new radar advances includes: systems such as HF over-the-horizon radar for remote detection, space radar for global coverage, doppler meteoric radar for advanced meteorology, missile radar management, and 3D aerial surveillance radar. Technologies such as solid state transmitters, digital signal processing for the introduction of doppler filters for moving target disorder, CFAR and automatic detection and tracking. Target and clutter cross-sectional characteristics, prediction, and measurement. Antenna technology ranging from modern reflector antennas to electronically steered beaded blocks, low side klobes antennas and adaptive antennas. The air pulse doppler, AMTI and MTI radar techniques for aircraft detection much greater clutter echoes in the middle. With all this and much more, including discussions about modern radar transmitters and receivers not available elsewhere, the Radar Manual holds a bookshelf for each radar engineer. The editor, Chief Merrill I. Skolnik, known worldwide for his leadership in radar research and development, is affiliated with the Johns Hopkins Radiation Laboratory, Sylvania, THE MIT Lincoln Laboratory, the Research Division of Electronic Communications Inc., the Institute of Defense Analyses, and the U.S. Marine Research Laboratory. He received a PhD in electrical engineering from Johns Hopkins University, where he also earned BE and MSE degrees. He is the author of a leading college textbook on the radar, Introduction to Radar Systems (McGraw-Hill), now in his second edition, and editor of Radar Applications. He is a member of the National Academy of Engineering, an IEEE fellow, and has been an IEEE process editor. I've owned Skolnik's Radar Handbook 2nd ed. I bought this new edition soon after it came out. In some respects, it has been updated. However, in several areas I have found previous versions more useful. Descriptions of recent events have been added, but some of the materials that have made the Radar Manual a good reference have been removed. Two examples: first ed. They were reduced to 7 figures in ed. 3rd ed. I couldn't find any indication of atmospheric absorption. However, it discusses the distribution program AREPS. The pulse doppler radar divisions have about the same number of numbers in three editions. However, in 3rd ed. Four numbers 2 ed. to Barton. That would be a good trade, except that eq. (4.25) is a serious typo: with the counter, Km^{-1} (-1) (Pd, 2ne) would be Km^{-1} (-1) (Pfa, 2Npdj). My suggestion is that if you work on radar design, you own this book. However, if you have a previous edition, you should not give it away. Away.

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