



Radar Systems for Technicians

Ronald Bouwman

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This book takes a unique approach to radar systems, combining historical insight and technical information. In order to facilitate understanding of the logical reasoning behind state-of-the-art designs, the author takes the reader as far back as original World War II concepts. Mathematical explanations rely only on basic trigonometric concepts, keeping the information accessible to new students while providing sound technical information for experienced professionals. The book includes detailed illustrations for enhanced concept visualization. More experienced technicians and engineers will find illustrations of oscilloscope and spectrum analyzer displays especially valuable. The reader will find the treatment of such topics as moving-target-indicator (MTI), moving-target-detector (MTD), and air traffic control radar beacon systems (ATCRBS) in air traffic control radars unlike any other text. An illustrated appendix provides definitions and page references to aid the reader in locating more information in the text. Explanations of theories are easy for beginners to read but are useful at all background levels. Extensive math background is not required. Mathematical explanations are limited to basic trigonometry. Hard to find information is brought together and presented in an easy-to-access style. Abundant, detailed illustrations aid the reader in visualizing and assimilating concepts. End of chapter review problems, with answers provided on a separate page. Table of Contents: Chapter 1. The Profession Chapter 2. The History and Development of Radar Chapter 3. Logarithms, DeciBels, and Power Chapter 4. The Basic Principles of Radar Chapter 5. Types of Pulsed Radars Chapter 6. More Details, FAA ASR and ARSR Radar Systems Chapter 7. Secondary Radar Systems Chapter 8. Microwave Transmission Lines and Cavities Chapter 9. Radar Synchronizers Chapter 10. Radar Transmitters Chapter 11. Radar Receivers Chapter 12. Moving Target Indicators and t

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