



# **Radar Principles for the Non-Specialist (Scitech Radar and Defense)**

*John C. Toomay, Paul Hannen*

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**Radar Principles for the Non-Specialist (Scitech Radar and Defense)** John C. Toomay, Paul Hannen  
*Radar Principles for the Non-specialist*, Third Edition continues its popular tradition: to distill the very complex technology of radar into its fundamentals, tying them to the laws of nature on one end and to the most modern and complex systems on the other.

It starts with electromagnetic propagation, describes a radar of the utmost simplicity, and derives the radar range equation from that simple radar. Once the range equation is available, the book attacks the meaning of each term in it, moving through antennas, detection and tracking, radar cross-section, waveforms and signal processing, and systems applications. At the finish, the reader should be able to do an acceptable, first-order radar design, and to critique the designs of others. Students, engineers, scientists, and managers will benefit from this book.

New to this edition: Every section of each chapter was revised in some way. The more noticeable enhancements are the additions of equation numbers, more numerical examples, table and figures showing many of the concepts numerically, and exercises for almost all the concepts. These enhancements make the book easier to learn from (and teach out of).

## Key Features


Concise, self-contained chapters for quick and easy comprehension of concepts

A practical glossary to help readers look up and apply key radar terms

The 294 pages include 97 figures, 6 tables, 253 equations, and 61 exercises

Numerous exercises that reinforce the concepts and their real-life application

A comprehensive solution set (Mathcad and RTF files) for the vast majority of the exercises is available from the publisher upon request.

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