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Introduction to RADAR SYSTEMS MERRILL I. SKOLNIK Research Division Electronic Communications, Inc. Institute for Defense Analyses International Student Edition McGRAW-HILL BOOK COMPANY, INC. New York San Francisco Toronto London KOGAKUSHA COMPANY, LTD. Tokyo CONTENTS Preface CHAPTER 1. THE NATURE OF RADAR 1 1.1. Introduction 1 1.2.

### **Introduction to RADAR SYSTEMS - pfri.uniri.hr**

An introduction to radar systems should ideally be self-contained and hands-on, a combination lacking in most radar texts. The first edition of Radar Systems Analysis and Design Using MATLAB® provided such an approach, and the second edition continues in the same vein.

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Introduction to Airborne Radar is the revision of the classic book privately published by Hughes Aircraft Company in 1983. Lavishly produced in full color, the book was quite unlike any commercially published radar book produced by the major technical publishers.

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are illustrated in the simple block diagram of Fig. 1.1. (Other examples of radar block diagrams

## **CHAPTER 1**

Radar Fundamentals. 2 Overview • Introduction • Radar functions • Antennas basics • Radar range equation • System parameters • Electromagnetic waves • Scattering mechanisms • Radar cross section and stealth • Sample radar systems. 3

### **Radar Fundamentals - Naval Postgraduate School**

MERRILL I. SKOLNIK Second Edition Boston, Massachusetts Burr Ridge, Illinois Dubuque, Iowa Madison, Wisconsin New York, New York ... 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.

### **RADAR HANDBOOK Editor in Chief MERRILL I. SKOLNIK**

The RADAR system generally consists of a transmitter which produces an electromagnetic signal which is radiated into space by an antenna. When this signal strikes any object, it gets reflected or reradiated in many directions.

### **RADAR - Introduction of RADAR Systems, Types and Applications**

Radar Systems Course 2 Radar Cross Section 1/1/2010 IEEE New Hampshire Section IEEE AES Society  
Block Diagram of Radar System Transmitter Waveform

### **Introduction to Radar Systems 2004 - University of New**

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