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RADAR HANDBOOK Editor in Chief MERRILL I. SKOLNIK

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 ...

INTRODUCTION TO RADAR SYSTEMS - GBV

INTRODUCTION TO RADAR SYSTEMS THIRD EDITION Merrill I Skolnik Graw Boston • Burr Ridge, IL • Dubuque, IA • Madison, WI * New York • San Francisco • ...

CHAPTER 1

CHAPTER 1 AN INTRODUCTION TO RADAR Merrill I Skolnik 11 DESCRIPTION OF RADAR The basic concept of radar is relatively simple even though in many instances its practical implementation is not A radar operates by radiating electromagnetic energy and detecting the echo returned from reflecting objects (targets) The na-

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CHAPTER Introduction to Radar Systems and Signal Processing

2 Chapter One Introduction to Radar Systems and Signal Processing 3 $2R/c$; thus, if $A(t) > T(t)$ at some time delay t_0 after a pulse is transmitted, it is assumed that a target is present at range $R = ct_0/2$ (11) where c is the speed of light 1 Once an object has been detected, it may be desirable to track its location or velocity A monostatic radar naturally measures position in a

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CHAPTER 7

71 INTRODUCTION Phased Array Radars Multifunction Radar Early radar systems used antenna arrays formed by the combination of individual radiators Such antennas date back to the turn of the twentieth century^{1'2'3} Antenna characteristics are determined by the geomet-

Radar Fundamentals - Naval Postgraduate School

Radar Fundamentals 2 Overview • Introduction • Radar functions • Antennas basics • Sample radar systems 3 (Similar to Table 11 and Section 15 in Skolnik) 7 Time Delay Ranging • Target range is the fundamental quantity measured by most radars

Introduction to Radar Signal & Data Processing: The ...

applied to radar systems This paper introduces the Reader to the world of radar and, specifically, to the topics tackled in the subsequent lectures of the series The paper starts with an introduction (Section 2) to radar (radar evolution from the early days up today, taxonomy of radar and radar equation) Subsequently, Section 3

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CHAPTER 6

Electronic Systems Group Westinghouse Electric Corporation 61 INTRODUCTION Role of the Antenna The basic role of the radar antenna is to provide a transducer between the free-space propagation and the guided-wave propagation of electromagnetic waves The specific function of the antenna during transmission is

CHAPTER 2

curves with the signal-to-noise power ratio as the abscissa The fluctuating-signal problem has subsequently been further treated by Kaplan,⁷ Schwartz,⁸ Heidbreder and Mitchell,⁹ Bates,¹⁰ and others Hall 1 published in 1956 a comprehensive paper on radar range prediction in which the concepts of probability of detection, false-alarm probability, the rela-

CHAPTER 22

CHAPTER 22 SPACE-BASED RADAR SYSTEMS AND TECHNOLOGY Leopold J Cantafio Space and Technology Group TRW 221 INTRODUCTION

Significant developments have been made in space-based radar (SBR) systems and technology since the 1970 edition of the Radar Handbook was published. A new rendezvous radar was developed for the space shuttle and ...

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CHAPTER 10

CHAPTER 10 PULSE COMPRESSION RADAR Edward C Farnett George H Stevens RCA Electronic Systems Department GE Aerospace 101

INTRODUCTION Pulse compression involves the transmission of a long coded pulse and the pro-