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Complex System Multidisciplinary knowledge Hardware design follows COTS approach Software development amount of DSP concepts Acts as a Motivation for Learning and Understanding DSP Radar concepts can be used in ROBOT Radar, SONAR ,Ultrasonic ranging etc . INTRODUCTION TO RADAR RADAR = Radio Detection and Ranging â€¢ Detects targets by receipt ...

### **RADAR - IIT Kanpur**

CHAPTER 1 â€” BASIC RADAR PRINCIPLES AND GENERAL CHARACTERISTICS INTRODUCTION The word radar is an acronym derived from the phrase RAdio Detection And Ranging and applies to electronic equipment designed for detecting and tracking objects (targets) at considerable distances. The basic principle

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

1 Chapter 1 Introduction to radar Systems and Signal processing 1.1 History and Applications of Radar The word "radar" was originally an acronym, RADAR, for "radio detection and ranging." Today, the technology is so common that the word has become a standard English noun.

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In a bistatic radar the transmitter and receiver are separated, often by very large distances (> 1Km). This is the type of radar that might be used in a 1 Skolnik, M. I., Introduction to Radar Systems, Third Edition, 2001, McGraw-Hill, New York, N.Y.

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radar systems to determine the position of ships, planes, and land masses that are invisible to the naked eye because of distance, darkness, or weather. Radar systems provide only a limited field ...

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