

## PRINCIPLES OF AIRBORNE RADAR SYSTEMS

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1 CHAPTER 1 BASIC RADAR PRINCIPLES AND GENERAL CHARACTERISTICS INTRODUCTION

The word radar is an acronym derived from the phrase RAdio Detection

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### **Radar Basics Physical fundamentals of the radar principle**

These principles can basically be implemented in a radar system, and allow the determination of the distance, the direction and the height of the reflecting object. (The effects atmosphere and weather have on the transmitted energy will be discussed later; however, for this discussion on determining range and direction, these effects will be temporarily ignored.)

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### **BGR Airborne radar**

Another principle of airborne radar further developed for helicopter surveys is the Stepped Frequency Technique. This technology has the advantage, that it allows a better resolution of structures in the underground by an optimized adaptation of the frequency bandwidth. For this reason, this method is especially suitable for geological applications. The development is promoted in cooperation with the company RST group.

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### **A Tutorial on Synthetic Aperture Radar UCL Department of**

SLAR (side-looking airborne radar) and did not use the principle of the synthetic aperture. This led to a moderate azimuth resolution which deteriorates as the range increases. For example, an X-band SLAR system with a 3-meter antenna has an azimuth antenna beamwidth of  $\theta = 3 \cdot 003 \text{ m} / 001 \text{ m} = 3 \text{ rad}$ , a  $\text{m} / \lambda = 1$  where  $\lambda$  is the wavelength. The azimuth resolution  $\Delta a$  is given by the

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### **Radar Basics Radar Principle**

The electronic principle on which radar operates is very similar to the principle of sound-wave reflection. If you shout in the direction of a sound-reflecting object (like a rocky canyon or cave), you will hear an echo. If you know the speed of sound in air, you can then estimate the distance and general direction of the object. The time required for an echo to return can be roughly converted to distance if the speed of sound is known.

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### **Radar Principles Systems National Space Science and**

Radar Principles & Systems With your facilitator LT Mazat I. Learning Objectives A. The student will comprehend the basic operation of a simple pulse radar system.

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### **Radar Basics Side Looking Airborne Radar**

Side Looking Airborne Radar (SLAR) The platform (aircraft or satellite) of an side-looking airborne radar (SLAR) travels forward in the flight direction with the nadir directly beneath the platform. The microwave beam is transmitted obliquely at right angles to the direction of flight illuminating a swath.

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### **Principles of Modern Radar Volume 3 The IET**

Description. Providing in-depth discussions on the most important application areas in current radar practice, Principles of Modern Radar: Volume 3 includes concise descriptions of the purposes, principal issues and radar methods found in a wide variety of current radar types.

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### **Airborne Radar AvTutorials**

Airborne Radar teaches the use of airborne weather radar. But, it goes beyond use of airborne radar, teaching thunderstorm theory, hazards of thunderstorms, airborne radar theory, and airborne radar techniques. A Final Exam concludes the course, enabling the user to test their knowledge.

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### **What is the best textbook about radar Quora**

An Introduction to Airborne Radar by Stimson: 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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