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Introduction Table 1: Applications for low frequency airborne radars. . are ensured by external GPS/INS linked by serial port to the RDU. . for low-frequency SAR ground surveillance," IEE Proceedings: Radar, Sonar and

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Stinson, G.W., Introduction to Airborne Radar, Hughes Aircraft Company, History of the Beginnings of RADAR, IEE History of Technology Series, Vol. 6, Peter

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N. (Sami) Gopalsami and A. P. C. Raptis, “Millimeter-wave radar sensing of airborne chemicals,” IEEE Trans. Microw. Theory wave (MMW) polarimetric radar for remote sensing applications,” IEEE Trans. Geosci. Introduction . show the measured envelope waveforms after normalization, their full-width half maximum.

### **Radar principles for the non-specialist**

Howland, Paul E., Television Based Bistatic Radar, thesis, School of H. D. Griffiths and N. R. W. Long, “Television Based Bistatic Radar,” IEE Proc., Part F, Vol. Stimson, George W., 1998, Introduction To Airborne Radar, 2nd ed., Raleigh,

### **Detecting and classifying low probability of intercept radar**

[15] Stimson, G. W., Introduction to Airborne Radar, 2nd Edition, Scitech Publishing Using Array Antennas, IEE Radar, Sonar, Navigation, and Avionics Series

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Skolnik M L 1980 Introduction to Radar Systems 2nd edn (New York: Theoretical aspects of target classification AGARD Lecture Series No 152 ed Moffatt D L and Mains R K 1975 Detection and discrimination of radar targets IEEE Trans.

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algorithm, which are time-based recursive algorithms initially introduced in spectral analysis, array suppressing clutter and jamming in airborne radar [1]. Em-

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Keywords: nonlinear radar; harmonic radar; moving target imaging; synthetic . We model the input–output relationship for the nonlinear device as a power series, as In Proceedings of the IEEE Radar Conference, Ottawa, ON, Canada, . Stimson, G.W. Introduction to Airborne Radar, 2nd ed.; SciTech

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In conclusion, a radar receiver with combined. AMTI and 1 Introduction. In the paper a Airborne radar has several attractive features, such as IEE PROCEEDINGS, Vol. 136, Pt. F . are presented which show the effectiveness of the tech-.

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43 759 Borden B 1997 Some issues in inverse synthetic aperture radar W M and Porcello L J 1969 An introduction to synthetic aperture radar IEEE Spectrum

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IEEE Fellow for "contributions to radar waveform diversity and design", 2016; 2012 . and High Resolution Radar," Chapter 16 in Introduction to Airborne Radar,

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chronological order several important Laboratory tactical-radar programs and the technologies that were developed for both airborne and ground-based . months in Vietnam, introducing the radar to the. Third Brigade, 1st Infantry Division, . Stockbridge, New York, shown as red points, show the prob- ability of detection of

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NASA reprint from Jan 28, 2010. In response to the disaster in Haiti on Jan. 12, NASA has added a series of science overflights of earthquake

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Part of the Communications in Computer and Information Science book series (CCIS, volume 189) However, in airborne radars, they present a wide spectrum for the Doppler processing (STAP) was introduced to improve the capacity of radars to detect In: Proceedings of the 1993 IEEE National Radar Conference, pp.

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3.2 Airborne radar . . . pulse radar are introduced including the Doppler effect caused by target motion, followed by pulse compression .. Solution: Obviously, the signal vector is 'hidden' in the time series and shifted by the amount  $k$  SAR Processing using Chirp Scaling', IEEE Transactions on Geoscience and. Remote

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[1] We use an airborne-radar method, verified with ice-core Comparisons between radar-derived measurements and model outputs show that three global . These data gaps could introduce a magnitude bias in our regional record, .. mapping of near-surface internal layers in glacial ice, IEEE Trans.

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Stimson, G. W. Introduction to Airborne Radar, 2nd ed.. Medham, NJ: Scitech 1984 IEEE National Radar Conference, Atlanta, GA, pp. 74-78. 116. Staudaher

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North Atlantic Treaty Organization (RTO-NATO) Lecture Series 228—Military M.I. Skolnik, Introduction to Radar Systems, second ed., McGraw Hill, New York, NY, 1980. J. Ward, Space-Time Adaptive Processing for Airborne Radar, Lincoln of target detection algorithms that use polarimetric radar data, IEEE Trans.

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Canada's RADARSAT-2 commercial synthetic aperture radar (SAR) satellite will have an experimental mode Introduction process, augmented and validated by airborne SAR GMTI bandwidth cases show the difference between the processors' .. In Proceedings of the IEEE International Radar Conference, 8–11.

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