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), The Internal Software Structure Of The APM Was Completely Revamped And Updated Using Modern Fortran Language Features. It Was Made Thread-safe To Take Advantage Of Multi-core Systems To Efficiently Generate RF Predictions For Lar May 7th, 2024

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An X-band Rooftop Radar Testbed Has Been Developed At Applied Radar's Facility Consisting Of A Rooftop-mounted Antenna Array [1] With Digital Receiver/exciter (DREX) Electronics [2-5] And Real-time Back-end Processing In The Laboratory Below. A 0.5 Km X 0.5 Km Open Field Across The Feb 6th, 2024

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4. "Experimental Verification Of The Weather Radar Equation For Frequency Agile, Phased Array Ra-dar". Proceedings 54th Tri-Service Radar Sympo-sium 2008(J.B. Knorr, I PopStefanija) 5. "Use Of A Mobile, Phased-array, X-Band Doppler Radar To Study Severe Convective Apr 5th, 2024

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[1, 2]. The PAA Is Widely Used For High Gain Beam-forming And -scanning In Telecommunication [3], Microwave Imaging [4, 5], And Radar Applications [6]. Typical Radiating Elements Of The PAA Are The Dipole, Microstrip Patch, And Vivaldi Antenna. Among These, The Vivaldi Antenna, Also Known As The Flared Mar 4th, 2024

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High Gain, Low Sidelobe Level A. Introduction Of Vivaldi Antenna Vivaldi Antenna Was Pioneered By Gibson In 1979. "The Vivaldi Aerial Is A New Member Of The Class Of Aperiodic Continuously Scaled Antenna Structures And, As Such, It Has Theoretically Unlimited Instantaneous Frequency Bandwidth. This Aerial Has Significant Gain And Linear May 7th, 2024

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