

Mar 1, 2025 · Finally, to suppress and eliminate interference signals from PMT base stations, we analyzed commonly used radio frequency interference suppression methods in radio astronomy.

May 30, 2024 · The siting of cellular phone base stations and other cellular infrastructure such as roof-mounted antenna arrays, especially in ...

Radio telescopes are vulnerable to the Earth's artificial electromagnetic signal interference. In order to protect the electromagnetic environment of Five-hundred-meter Aperture Spherical ...

Dec 8, 1999 · To achieve electromagnetic compatibility (EMC) in mobile communication systems requires the right signal with sufficient strength for the customer. Such requirements bring a ...

Jan 1, 1999 · Chapter 1 Base Stations, Mobile RF Communication Systems, and Antenna Interferences 1.0 Introduction Mutual ~nterference in today's telecommunication systems is ...

Oct 26, 2023 · The coexistence of mobile communication and radio astronomy services in shared frequency bands significantly affects radio astronomy observation stability. To ensure an ...

Apr 5, 2024 · In this manuscript, we present a novel deployment protection method aimed at safeguarding aeronautical radio altimeters (RAs) from interference caused by fifth-generation ...

Oct 4, 2022 · By implementing these measures, the interference received power of the base station at FAST can be significantly reduced while ensuring communication efficiency and ...

Aug 6, 2020 · ELECTROMAGNETIC INTERFERENCE ASSESSMENT OF CDMA AND GSM W IRELESS PHONES TO AIRCRAFT NAVIGATION RADIOS ELECTROMAGNETIC ...

Sep 22, 2023 · However, interference challenges due to simultaneous usage of the same spectrum in the different cells, dense deployment of base stations (BSs), and massive use of ...

Apr 1, 2024 · Performance of three different methodologies and equipment (broadband probes, spectrum analyzers, and drive test scanners), in the context of human exposure to ...

Apr 1, 2022 · The rapid development of aerospace weapons and equipment, wireless base stations and 5G communication technologies has put forward newer and higher requirements ...

In the case of electromagnetic interference(EMI), considering the frequency coordination requirements, we propose the strategies for interference avoidance and using frequency for ...

Mar 1, 2022 · With the rapid development of the construction and application of 5G communication networks in the power grid, more and more 5G base stations need to be built ...

Apr 1, 2024 · 5G networks deployment poses new challenges when evaluating human exposure to electromagnetic fields. Fast variation of the user load and beamforming techniques may ...

Dec 31, 2015 · Radar detection and tracking performance in the UHF-band can be influenced by the downlink signals of communication base stations. The polarimetric properties of ...

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