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Radio monitoring station investigates interference with integrated 5G base stations





Overview

How to reduce interference between 5G base stations and FSS earth stations?

To reduce the interference between 5G base stations (BSs) and FSS earth station (ES), a guard band protection method is proposed. Additionally, the distance and angular protection methods are amalgamated. The performances are evaluated by simulation in realistic 3GPP. Also, the impacts of four antenna types are analysed for a 5G BS.

Can guard band protection solve the interference for 5g/fss coexistence?

The numerical results show that the guard band protection can solve the interference for the 5G/FSS coexistence, when the distance protection is combined. In addition, when the hybrid protection method is employed, the coexistence between 5G BS and FSS ES is guaranteed.

Does 5G network coexist with Fixed Satellite Service (FSS)?

In this paper, the coexistence between fifth generation (5G) network and fixed satellite service (FSS) is investigated. To reduce the interference between 5G base stations (BSs) and FSS earth station (ES), a guard band protection method is proposed. Additionally, the distance and angular protection methods are amalgamated.

Can a 5G base station receive a FSS ground station?

The coexistence analysis is performed for the reception of the downlink of a 5G base station in the 3.5 GHz band to a nearby FSS ground station with parameters taken from the ITU-R guidelines related to IMT and FSS systems.



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[Interference Challenges on 5G Networks: A Review](#)

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 ...

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Interference Mitigation Technology Solution for 5G Base Stations ...

Widespread adoption of 5G systems may interfere with fixed satellite service (FSS) earth stations operating in nearby frequency bands. Some countries and regions are currently ...

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[Deployment Protection for Interference of 5G Base Stations ...](#)

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

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Sensors , Free Full-Text , Deployment Protection for Interference of 5G

Sensors , Free Full-Text , Deployment Protection for Interference of 5G Base Stations with Aeronautical Radio Altimeters , Notes

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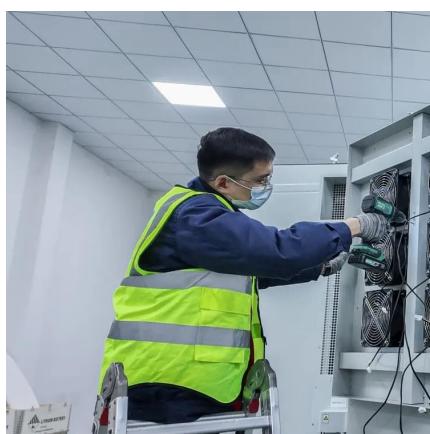
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