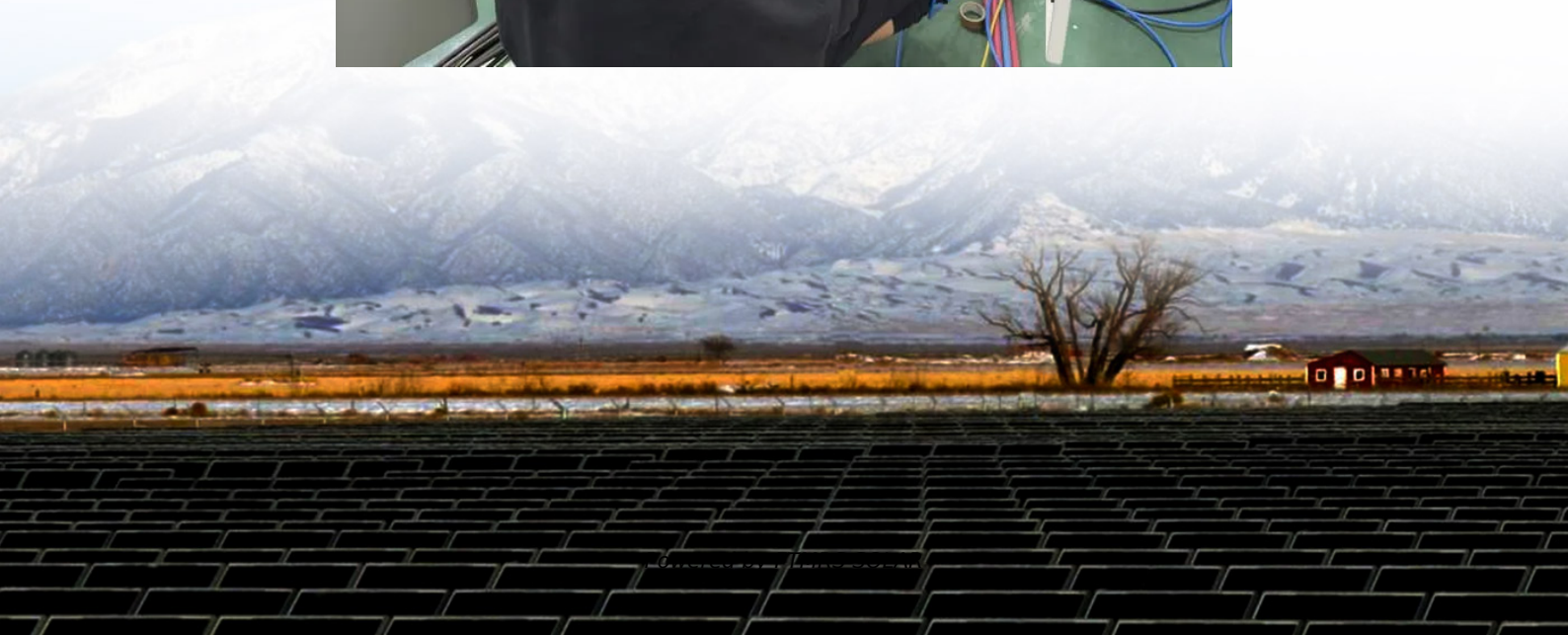


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Overview

Can a base station be used for 5G?

Conferences > 2018 IEEE International RF an. The fifth-generation (5G) mobile communication system will require the multi-beam base station. By taking into account millimeter wave use, any antenna types such as an array, reflector and dielectric lens antennas are possible for a base station application.

What is a small-cell base station (SBS) antenna?

To address the growing demand, 5G technology is being implemented at a larger scale. Small-cell Base Station (SBS) antennas are crucial for exploring the full potential of 5G networks by expanding the network in urban areas, densely populated regions, indoor environments, and low-coverage zones.

Can a multi-beam base station be used in a 5G mobile communication system?

Abstract: The fifth-generation (5G) mobile communication system will require the multi-beam base station. By taking into account millimeter wave use, any antenna types such as an array, reflector and dielectric lens antennas are possible for a base station application.

Do 5G SBS antenna designs improve performance and compactness?

As networks become more complex and 5G systems require more network coverage, implementing several antenna designs in SBSs presents unique challenges related to performance and compactness. This paper discusses 5G SBS antenna designs that have been proposed recently and studies their characteristics with the parameters that enhance the performance.



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