



## Metantennas for 5G and B5G Wireless Communications

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- Metamaterials or Metasurfaces have been one of the hottest research topics in electromagnetic community, in particular, antenna engineering. This talk reports the latest progress in the applications of metasurfaces in 5G and B5G antenna engineering (**metantennas** in short) at microwave/millimeter-wave bands. First, the new requirements for 5G antennas are introduced and then the concepts of metasurfaces are briefed. After that, the recent progress in the research and development of microwave metantennas is updated with two metasurface-based design examples.

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