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### **Beamforming - Wikipedia**

Millimeter wave, 5G cellular, Low resolution quantizers, Digital beamforming. I. INTRODUCTION The need for more bandwidth, driven by ever higher demand, has brought millimeter wave (mmWave) communication into the spotlight as an enabling technology for the 5th generation (5G) wireless communication systems.

### **A Case for Digital Beamforming at mmWave**

Digital beamforming is implemented at the modem, which is a prototype based on a millimeter wave (mmWave) communication product. Moreover, suitable converter and signal conditioning boards as an interface to the THz frontends have been fabricated and utilized for the experimental setup.

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Precoding is a generalization of beamforming to support multi-stream transmission in multi-antenna wireless communications. In conventional single-stream beamforming, the same signal is emitted from each of the transmit antennas with appropriate weighting such that the signal power is maximized at the receiver output. When the receiver has multiple antennas, single-stream beamforming cannot simultaneously maximize the signal level at all of the receive antennas. In order to maximize the throughp

### **Precoding - Wikipedia**

by Catharine June, University of Michigan. Credit: University of Michigan. The first fully integrated single-chip digital millimeter-wave (MMW) beamformer, created by electrical and computer engineers at the University of Michigan, opens up new possibilities in high-frequency 5G communications. The technology could be used to improve vehicle-to-vehicle communication, autonomous driving, satellite internet, and national defense, to name a few.

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