Abstracts

The Tapered Slot Antenna--A New Integrated Element for Millimeter-Wave Applications

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Tapered slot antennas (TSA's) have a number of potential applications as single elements and focal plane arrays. TSA's can be fabricated with photolithographic techniques and integrated in either hybrid or MMIC circuits with receiver or transmitter components. They offer considerably narrower beams than other integrated antenna elements and have high aperture efficiency and packing density as array elements. Typical applications which have been demonstrated or are under development are reviewed.

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