

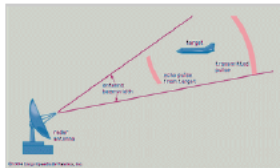
fan beam

physics

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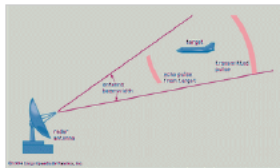
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...antenna that radiates a “fan” beam, one that is narrow in azimuth (about 1 or 2 degrees) and broad in elevation (elevation beamwidths of from 20 to 40 degrees or more). A fan beam allows only the measurement of the azimuth angle.

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A fan beam, one with a narrow beamwidth in azimuth and a broad beamwidth in elevation, can be obtained by illuminating an asymmetrical section of the paraboloid. An example of an antenna that produces a fan beam is shown in the photograph.

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