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An active phased array or active electronically scanned array (AESA) is a phased array in which each antenna element has an analog transmitter/receiver (T/R) module which creates the phase shifting required to electronically steer the antenna beam. Active arrays are a more advanced, second-generation phased-array technology which are used in military applications; unlike PESAs they can radiate several beams of radio waves at multiple frequencies in different directions simultaneously.

Phased array - Wikipedia

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probability of false alarm (P_{fa}) below $1e-6$.

Designing a Basic Monostatic Pulse Radar - MATLAB ...
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The FMCW antenna array is intended for a forward radar

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system designed to look for and prevent a collision.

Therefore, A cosine antenna pattern is an appropriate choice for the initial design since it does not radiate any energy backwards. Assume that the radar system operates at 77 GHz with a 700 MHz bandwidth.

Patch Antenna Array for FMCW Radar - MATLAB & Simulink

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against different channel models to assess their robustness to different environmental conditions.

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