

## Phased Array Radar Design Application Of Radar Fundamentals

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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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Designing a Basic Monostatic Pulse Radar - MATLAB ...

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The FMCW antenna array is intended for a forward radar 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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