

Abstracts

Phase-comparison monopulse radar with switched transmit beams for automotive application

S. Ohshima, Y. Asano, T. Harada, N. Yamada, M. Usui, H. Hayashi, R. Watanabe and H. Iizuka. "Phase-comparison monopulse radar with switched transmit beams for automotive application." 1999 MTT-S International Microwave Symposium Digest 99.4 (1999 Vol. IV [MWSYM]): 1493-1496 vol.4.

We have developed a millimeter-wave automotive radar with ± 10 -degree azimuthal field of view for an adaptive cruise control. A novel technique has been introduced for realizing the wide field of view. That is a phase-comparison monopulse technique with switched transmit beams. This technique makes it possible to widen the field of view with a simple structure.

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