

Abstracts

Development of Millimeter Wave Automotive Sensing Technology in Japan

M. Kotaki, Y. Takimoto, E. Akutsu, Y. Fujita, H. Fukuhara and T. Takahashi. "Development of Millimeter Wave Automotive Sensing Technology in Japan." 1992 MTT-S International Microwave Symposium Digest 92.2 (1992 Vol. II [MWSYM]): 709-712.

The Ministry of Posts and Telecommunications in Japan organized a committee to study millimeter wave sensing technologies in 1984. Sensors for automotive vehicles have been mostly studied as appropriate applications of millimeter waves. This paper presents the outline of three types of radars eg. FM-CW, 2D-imaging, and pulse Doppler, and also presents the study results and a lot of fundamental data measured through the laboratory and road tests. Among those, the FM-CW system shows good performance on freeway test and under adverse environmental conditions.

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