

Abstracts

Evaluation of Service Area in the Satellite Broadcasting by the BSE

M. Yamamoto and S. Sonoda. "Evaluation of Service Area in the Satellite Broadcasting by the BSE." 1980 MTT-S International Microwave Symposium Digest 80.1 (1980 [MWSYM]): 305-307.

We discuss received TV signal stability, a pointing error and radiation pattern of an on-board antenna, tracking errors of receiving antennas in earth terminals and rain attenuation in the BSE (Japanese Medium-scale Broadcasting Satellite for Experimental Purpose) experiments. The service area for the satellite broadcasting by the BSE is evaluated from these experimental results and statistical analyses. The receiving antenna diameters to assure excellent or fine picture in the satellite broadcasting will be about 1 meter around the beam center of the on-board antenna, about 1.6 meters in the fringe area of the Japanese main lands and about 2.8 to 4.5 meters in the remote islands of Japan.

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