

Abstracts

A Three-Band Microwave Radiometer for Noninvasive Temperature Measurement

S. Mizushina, H. Oh-ishi and Y. Hamamura. "A Three-Band Microwave Radiometer for Noninvasive Temperature Measurement." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 145-146.

A three-band radiometer operating at 1.5, 2.5 and 3.5 GHz with a 1-GHz band-width has been developed for noninvasive measurement of body temperature. An experiment using a water-bath filled with tap water showed that the instrument could measure the temperature (15 °C) of a subjacent layer (depth > 2 cm), differentiating it from that (22 °C) of the surface layer (depth < 2 cm).

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