

Abstracts

The Surface Roughness Measurement of Metals Using Microwave

Z. Ding and J. Huang. "The Surface Roughness Measurement of Metals Using Microwave." 1993 MTT-S International Microwave Symposium Digest 93.1 (1993 Vol. I [MWSYM]): 253-256.

A new principle of surface roughness measurement of metals using microwave is developed. The relations between surface roughness and reflected microwave power are found for the first time. A single chip microcomputer is used for processing and displaying the results. This method features non-contact inspection and real time operation as well as high accuracy and ease of application.

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