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Roughness Evaluation of Machined Surfaces of Wood

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Abstract: Roughness of machined surfaces of wood has been studied for a long time, since it is an important measure for evaluating the machining process employed and the quality of machined products. It is, however, not so easy to measure or evaluate the roughness, because the surface texture of wood is composed of anatomical roughness as well as the roughness due to processing. This paper introduces the outline of the standards for roughness measurement that have recently been revised completely. It also reviews the studies of the latest decade on roughness evaluation of machined surfaces of wood from the points of view such as roughness measurement including signal processing, evaluation of roughness due to processing, and roughness evaluation based on tactility.

Keywords: roughness evaluation, machined surface, anatomical roughness

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