

Surface Wavelength Partitioning Technique in Surface Texture Analysis

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ABSTRACT

This paper is about morphology surface wavelength partitioning technique in surface functional correlation analysis and process diagnostics. Relation between surface capability and surface texture of aluminium base pre-sensitised (PS) plates from various texturing methods and production has been studied. Surface wavelength partitioning using spline filter was performed to separate the different wavelength components of the aluminium base morphology. The causal relationship analysis result from surface wavelength partitioning process has been compared with result from original morphology surface.

Keywords: *surface roughness, surface texture, spline filter, wavelength partitioning, surface functional correlation*