

PLANAR ANISOTROPY OF FIBRE SYSTEMS BY USING MATLAB IMAGE PROCESSING TOOLBOX

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Abstract

This paper describes a simple method of description of fibre systems anisotropy using image analysis. This method is based on Fourier transform which is in frequency domain displayed by high values of frequency components corresponding with gradient of image function in spatial domain. The values of frequency components are added for directional vectors depending on certain angle and brought up to polar diagram and histogram. The polar diagram can be seen as an estimate of the rose of directions.