

INVESTIGATIONS OF ELASTIC
CHARACTERISTICS
OF TEXTURED MATERIALS

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S u m m a r y

A complex approach to the study of the elastic properties of textured sheet materials is proposed. It includes the dynamic method of Young's modulus measurement, the method of holographic interferometry, and the X-ray method of determination of the texture integral characteristics. Applying the approach allowed us to find the Poisson ratio and direction dependence of the Young's modulus in the rolling plane of VT5-1 kt cleformet sheets, some components of the VT5-1 kt monocrystal compliance tensor, Young's modulus value in the direction normal to the plane of a sheet, and shear modulus in the rolling plane.