

Study of the influence of the physical and chemical features of the polishing process on the quality of surface treatment of optical parts

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A review of the current world state of shaping technology was carried out in order to ensure the effectiveness of domestic technologies. A comparative analysis of the existing mathematical models describing the function of removing optical material was performed. Approbation of the real mathematical model developed on the basis of the experimental studies in production conditions was carried out. The result of the work is the analysis of the graphic dependence of the roughness of the polished surface on the concentration of the polishing suspension.

Keywords: shaping of optical surfaces, function of removal of optical material, slurry concentration, surface roughness.

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