

CONTENTS

<i>A.M. Bazhenov, A.I. Panov, I.A. Gilev</i> Plasma welding of aluminum alloys of small thicknesses	5
<i>A.V. Kulagin</i> Some features dimensions and mass approach for the study of noncircular pipe cross-sectional.....	13
<i>T.O. Soshina</i> Development of the construction multilayer film Ti–Al–N with stability and high functional properties.....	20
<i>A.A. Vasil'eva, T.R. Abliaz</i> Basic part measurement process study of coordinate and measuring machine Carl Zeiss Contura G2.....	32
<i>E.S. Platonova</i> Improved corrosion resistance machine parts	41
<i>E.P. Reshetnikova, P.Iu. Bochkarev, O.V. Zakharov</i> Complex mathematical models for the control of technique complex surfaces on coordinate measuring machines.....	49
<i>Iu.D. Shchitsyn, I.A. Gilev, D.S. Belinin, S.D. Neulybin, A.M. Bazhenov</i> Plasma welding of aluminum alloys when two arc plasma torch at current reverse polarity	61
<i>I.Iu. Letiagin</i> Assessment of stability of burning of a welding arch when welding by the covered electrodes.....	71
<i>A.M. Ignatova, M.A. Nikhamkin, L.V. Voronov, M.N. Ignatov</i> Phase transformations and fracture mechanism of synthetic mineral such basalt alloys under action of metal impactor	88
<i>V.F. Makarov, G.D. Petukhov</i> Development of prefabricated structures broaching tool for high-speed broaching shaft of the compressor blades of the cut material	101
<i>L.A. Onishchenko, I.Iu. Matushkina</i> The curriculum as the basis of the educational process	110