

IOP Conference Series: Materials Science and Engineering 2015 vol.86 N1

Prediction of samples failure during severe plastic deformation by multiple extrusion

Shibakov V., Pankratov D., Andreev A., Andreeva S.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© Published under licence by IOP Publishing Ltd. A method of obtaining a hardened semi-intensive plastic deformation by extrusion is considered. The results of simulation process at different stages of extrusion are given. Conclusions are drawn about the applicability of the simulation results to obtain the axisymmetric products. The results of sample study are given according to the method of determining the criterion of damage Ψ .

<http://dx.doi.org/10.1088/1757-899X/86/1/012032>
