DESIGN AND ANALYSIS OF PROCESS PARAMETERS ON MULTISTAGE WIRE DRAWING PROCESS- A REVIEW

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ABSTRACT

This paper presents the brief review on process parameters of wire drawing for aluminium 1080A. The aim is to analyse and numerically study the process parameters using finite element model and also to investigate the effect of forces on drawing of wire. Various research has been done considering different process parameters such as die angle, speed, force, stress, reduction ratio etc. This research paper evaluates the damage during drawing process, speed and temperature effect on drawing stress. An approach is proposed to evaluate the drawing stress by modifying avitzur model assumption.

KEYWORDS: Wire Drawing, Finite Element Model, Speed, Die Angle, Reduction Ratio, Temperature & Stress

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