

Analisis model tahanan deformasi dan beban eksperimental pada pengerolan dingin paduan kuningan cartridge

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Abstrak

Sebuah model tahanan deformasi hasil eksperimen diperoleh dari proses pengerolan dingin (cold rolling) paduan Kuningan Cartridge yang dilakukan di laboratorium. Berdasarkan model ini, model-model teoritis yang ada dimodifikasi sehingga model teoritis dapat diterapkan pada kondisi proses skala laboratorium tersebut. Model hasil regresi eksperimen dan modifikasi mampu memprediksi tahanan deformasi dan beban pengerolan paduan Kuningan Cartridge.

A model of resistance to deformation as a result of cold rolling process of Cartridge Brass alloy conducted at laboratory was obtained. Based on this experimental model, to be able to apply the theoretical models to meet the scale level of laboratory, they were modified. The regression of experiment results and the modified theoretical models are reasonably able to predict the resistance to deformation and roll separating force of the alloy during cold rolling process.