عنوان مقاله:

Initial Blank Shape Prediction in Deep Drawing Process for Polygon Flange Shapes Using Neural Network

محل انتشار:

اولین کنفرانس بین المللی و هفتمین کنفرانس ملی مهندسی ساخت و تولید (سال: 1384)

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خلاصه مقاله:

A new technique for prediction of initial blank shape in deep drawing process is proposed in this paper using the neural network. A three layer neural network is used and a back propagation algorithm is employed to train the network. Training data is obtained from the slip line field method. Trained network is simulated for an arbitrary flange shape. The simulated result is compared with the result of slip line field method and shows good agreement. The advantage of using neural network over numerical computation is in the saving in time and efforts required for blank .shape planning

کلمات کلیدی:

Deep drawing, Initial blank, Neural network