

Friction & Flow Stress in Forming & Cutting

edited by

**Philippe Boisse, Taylan Altan
& Kees van Luttervelt**

Friction And Flow Streb In Forming And Cutting

Hui Qi



Friction And Flow Stress In Forming And Cutting:

Ecological Engineering Patrick Kangas, 2003-09-25 Less expensive and more environmentally appropriate than conventional engineering approaches constructed ecosystems are a promising technology for environmental problem solving Undergraduates graduate students and working professionals need an introductory text that details the biology and ecology of this rapidly developing discipline known as Friction and Flow Stress in Forming and Cutting Philippe Boisse, Taylan Altan, Kees Van Luttervelt, 2001-09-01 *Friction & Flow Stress in Forming & Cutting* Philippe Boisse, Taylan Altan, Kees van Luttervelt, 2003 *Official Gazette of the United States Patent Office* United States. Patent Office, 1934 *Design of Tools for Deformation Processes* T. Z. Blazynski, 2012-12-06 Although the problem of tool design involving both the selection of suitable geometry and material has exercised the attention of metal forming engineers for as long as this industrial activity has existed the approach to its solution has been generally that of the trial and error variety It is only relatively recently that the continuing expansion of the bulk metal forming industry combined with an increase in the degree of sophistication required of its products and processes has focussed attention on the problem of optimisation of tool design This in turn produced a considerable expansion of theoretical and practical investigations of the existing methods techniques and concepts and helped to systematise our thinking and ideas in this area of engineering activity In the virtual absence so far of a single encyclopaedic but sufficiently deep summation of the state of the art a group of engineers and materials scientists felt that an opportune moment had arrived to try and produce concisely answers to many tool designers dilemmas This book attempts to set in perspective the existing and proven concepts of design to show their respective advantages and weaknesses and to indicate how they should be applied to the individual main forming processes of rolling drawing extrusion and forging

Simultaneous Determination of Flow Stress and Friction Coefficient in Sheet Metal Forming - Development and Application of the Modified Limiting Dome Height (MLDH) and Limiting Dome Height (LDH) Tests Hui Qi, 2007 Abstract The standard tensile test method for determining flow stress is based on uniaxial stretching which does not reflect the state of stress in most metal forming operations Therefore it is important to develop a test that defines the stress strain behavior of materials based on biaxial stretching The purpose of this study is to develop an inverse analysis techniques to determine flow stress of sheet materials AKDQ steel AA6111 T4 AA3003H and friction coefficients at punch sheet interfaces at room and elevated temperatures using the MLDH Modified Limiting Dome Height test and LDH Limiting Dome Height tests The study was conducted in five phases In Phase I the flow stress equation and friction model were chosen for the LDH MLDH tests The inverse analysis technique was developed in Phase II to determine flow stress and friction coefficient LDH MLDH tooling and equipment were designed and integrated in Phase III The LDH and MLDH experiments were performed in Phase IV MLDH tests of AKDQ steel at room temperature and LDH tests of AA6111 T4 and AA3003H at room temperature were performed AA3003H was also tested at elevated temperatures namely at 150 °C 200 °C

and 250 °C The inverse analysis to determine the flow stress of sheet materials and the friction coefficient at room and elevated temperatures using the MLDH and LDH tests was completed in Phase V For room temperature the inverse analysis of the MLDH test used hole expansion to determine the friction coefficient however for the LDH test the friction factor was obtained based on the maximal thinning location along the dome For elevated temperatures the strain rate sensitivity index m was added to the inverse analysis The m value could be estimated by an approximate equation using two different load stroke curves at two forming velocities

Preform Design and Friction Evaluation in Metal Forming by the Finite Element Method

Sang-Moo Hwang, 1985

Determination of Flow Stress and Coefficient of Friction for Extruded Anisotropic

Materials Under Cold Forming Conditions Han Han, 2002

Development of Advanced Techniques for Identification of

Flow Stress and Friction Parameters for Metal Forming Analysis

Hyunjoong Cho, 2007

Abstract The accuracy of process simulation in metal forming by finite element method depends on the accuracy of flow stress data and friction value that are input to FEM programs Therefore it is essential that these input values are determined using reliable tests and evaluation methods This study presents the development of inverse analysis methodology and its application to determine flow stress data of bulk and sheet materials at room and elevated temperatures The inverse problem is defined as the minimization of the differences between the experimental measurements and the corresponding FEM predictions Rigid viscoplastic FEM is used to analyze the metal flow while a numerical optimization algorithm adjusts the material parameters used in the simulation until the calculated response matches the measured data within a specified tolerance The use of the developed inverse analysis methodology has been demonstrated by applying it to the selected reference rheological tests cylinder compression test ring compression test instrumented indentation test modified limiting dome height test and sheet hydraulic bulge test Furthermore using the determined material property data full 3 D finite element simulation models as examples of industrial applications for orbital forming and thermoforming processes have been developed for reliable process simulation As results of this study it was shown that the developed inverse analysis methodology could identify both the material parameters and friction factors from one set of tests simultaneously Therefore this technique can offer a systematic and cost effective way for determining material property data for simulation of metal forming processes

Metal Transfer and

Build-up in Friction and Cutting Vladimir Dmitrievich Kuznetsov, 1966

Metal Transfer and Build Up in Friction and

Cutting V. R. Kuznetsov, Vladimir Dmitrievich Kuznetsov, E. Frietag, 1964

Inverse Engineering Method for

Simultaneous Determination of Flow Stress and Interface Friction in Forming Sheet Materials at Elevated Temperatures

Sathyanarayanan Narasimhan, 2002

Process Control in Sheet Metal Forming Focused Upon Friction, 1998

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