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analysis, represents a significant advance in metal forming operations. Numerical methods are used increasingly to optimize product design and deal with problems in metal forging, rolling, and extrusion processes.

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Calculation of exact forces to cause plastic deformation in metal forming processes is often difficult. Exact solutions must be both statically and kinematically admissible. That means they must be geometrically self-consistent as well as satisfying the required stress equilibrium everywhere in the deforming body.

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Applied Metal Forming - by Henry S. Valberg March 2010. In this chapter, two rather different cases of forging will be considered, the first one being cold backward cup extrusion, and the second one, hot closed-die forging. During FEA, a large number of analysis results can be achieved when realistic models of the forming operations have been made.

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Cambridge, Cambridge University Press, 2001. - 376 p. The introduction of numerical methods, particularly finite-element (FE) analysis, represents a significant advance in metal forming operations. Numerical methods are used increasingly to optimize product design and deal with problems in metal forging, rolling, and extrusion processes.

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The introduction of numerical methods, particularly finite element (FE) analysis, represents a significant advance in metal forming operations. Numerical methods are used increasingly to optimize product design and deal with problems in metal forging, rolling, and extrusion processes. Metal Forming Analysis, first published in 2001, describes the most important numerical techniques for ...

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[2] G.W. Rowe, C.E. Sturgess, P. Hartley and I. Pillinger, Finite-Element Plasticity and Metalforming Analysis, Cambridge University Press, 1991. Rigid-plastic A rigid-plastic material is defined as a material exhibiting no elastic deformation and perfect plastic deformation.

DoITPoMS - TLP Library Analysis of Deformation Processes

Lab Exercise No. 01 Objective: To study and observe through demonstration the metal forming process (Rolling). Theory: Definition of Rolling: Schematic Diagram of Rolling Rolling is the process of plastic deformation of metals by squeezing action as it passes through the pair of rotating rolls, either plane or grooved. The process may be carried out hot or cold..

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Cambridge University Press, ... This book helps the engineer understand the principles of metal forming and analyze forming problems - both the mechanics of forming processes and how the properties of metals interact with the ... 10 SlipLine Field Analysis. 132: 11 DeformationZone Geometry. 167: 12 Formability. 186: 21 Sheet Metal Properties ...

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FEA has made it possible to build very realistic FEM-models of any metal forming process, including complex three-dimensional forming operations, in which complex products are shaped by complex dies. Thus, using FEA it is now possible to visualize any metal forming process and to study strain, stresses, and other forming conditions inside the parts being manufactured as they develop throughout ...

Applied Metal Forming: Including FEM Analysis | Henry S ...

Avitzur: Metal Forming: Processes and Analysis, McGraw Hill, 1968 4. R.H. Wagoner, J.L. Chenot: Metal Forming Analysis. Cambridge University Press. 2010 Exam Oral exam if basic questions are answered correctly. Complex exam questions 1. Application different tensors for the determination of stress and strain state of

Dr. György Krállics - University of Miskolc

Metal Forming Analysis describes the latest and most important numerical techniques for simulating metal-forming operations. The first part of the book describes principles and proced Numerical methods, particularly finite element (FE) analysis, are being used increasingly to optimize product design and deal with problems in metal forging, rolling, and extrusion processes.

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