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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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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. 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.

Upper-Bound Analysis (Chapter 8) - Metal Forming
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.

Applied Metal Forming - Cambridge Core
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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[2] G.W. Rowe, C.E. Sturgess, P. Hartley and I. Pillingier, 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.

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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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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

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