

Modeling Of Metal Forming And Machining Processes By Finite Element And Soft Computing Methods Engineering Materials And Processes

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The physics of metal forming and metal removing is normally expressed using non-linear partial differential equations which can be solved using the finite element method (FEM).

However, when the process parameters are uncertain and/or the physics of the process is not well understood, soft computing techniques can be used with FEM or alone to model the process.

?Modeling of Metal Forming and Machining Processes on ...

Coining, flow forming, and ironing are examples of sheet-bulk metal forming. Modeling of metal forming started since the beginning of the 20th century . Initial attempts were directed to estimate the load required for plastic deformation.

Prominent methods were slip-line field method, slab method, and upper bound method.

Modeling of metal forming: a review - ScienceDirect

Modeling of Metal Forming and Machining Processes: by Finite Element and Soft Computing Methods. Professor

Prakash M. Dixit, Professor Uday S. Dixit (auth.) The physics of metal forming and metal removing is normally expressed using non-linear partial differential equations which can be solved using the finite element method (FEM).

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Metal Forming and Materials Modelling works on a range of metal forming processes, such as rolling, forging, extrusion, sheet metal forming, warm forming, hot-stamping and cold-die quenching for boron steel and Aluminium alloys, creep age forming, spin-forming, cross-wedge rolling, etc. Our mission is to provide solutions and develop applications in metal forming through industrial collaboration, drawing on knowledge and experience using available resources.

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Two prominent methods of converting raw material into a product have been metal forming and machining. Metal forming involves changing the shape of the material by permanent plastic deformation. After converting non-porous metal into product form by metal forming processes, the mass as well as the volume remains unchanged. However, in the case of metal forming of porous metal, volume does not remain unchanged.

Metal Forming and Machining Processes | SpringerLink

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Modeling of Metal Forming and Machining Processes ...
ABSTRACT. In metal forming processes, friction between tool and workpiece is an important parameter influencing the material flow, surface quality and tool life. Theoretical models of friction in metal forming are based on analysis of the real contact area in tool-workpiece interfaces.

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Review of friction modeling in metal forming processes

Abstract In forming processes, friction is a local phenomenon influenced by the contact conditions at the tool-sheet metal interface. A multi-scale friction model applicable for coated sheets is developed for the boundary lubrication regime which accounts for the physical behavior of coating and measured surface topographies of sheet and tools.

Modeling boundary friction of coated sheets in sheet metal ...

Early attempts in the modeling of metal forming processes were directed towards the prediction of forces required in metal forming. For example, for calculating the roll pressure distribution and torque in rolling, von Karman [12] developed the differential equation of the process.

Incorporation of material behavior in modeling of metal ...

Based on experimental measurements, the friction model considering lubricant viscosity and surface roughness is developed for using in the finite element analysis of sheet metal forming processes. The validity and accuracy of the friction model are shown comparing the punch loads among FEM analysis results employing current friction model and conventional friction model and experimental ...

Modeling of the friction caused by lubrication and surface ...

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