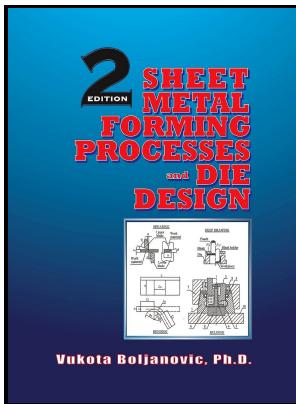


Sheet metal forming

Hilger - Sheet Metal Forming Basics



Description: -

- Sheet-metal work. Sheet metal forming

- The Adam Hilger series on new manufacturing processes and materials. Sheet metal forming

Notes: Includes bibliographical references (p. 265-271) and index.
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6 Common Sheet Metal Forming Process

The strain paths of biaxial circular and elliptical bulge formability tests show a kink after neck initiation toward vertical direction, corresponding to plane strain conditions.

Sheet Metal Forming ▶ Applications & quality assurance

Such flexible tools supplement the traditionally matched rigid steel tooling. It can also be used to manufacture components such as wings and propellers for the aerospace industry.

Sheet Metal Design Guide

The resulting spun part will have a diameter smaller than the blank, but will maintain a constant thickness. Hand-operated bead rollers, like this one, form beads and ribs into sheet-metal.

Sheet Metal Design Guide

The shapes that can be produced vary from a simple curved surface to complex non-uniform cross sections.

Automotive Bodywork: How to Form, Fit and Smooth Sheetmetal

Thick parts tend to become inaccurate so they should be avoided if possible.

What is Sheet Metal forming?

The changes in the hole geometry during the test allow one to have qualitative information about the friction at the punch—workpiece interface: the bigger the hole diameter at the end of the test, the better the lubricating system. The net effect is to superimpose the anisotropy of crystallographic slip on the deformation geometry.

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