

# STRAIN STUDIES IN SHEET METAL STAMPINGS

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## > INTRODUCTION

Sheet metal is one of the most important semi finished products used in the steel industry, and sheet metal forming technology is therefore an important engineering discipline within the area of mechanical engineering. Sheet metals are characterized by a high ratio of surface area to thickness. Sheet metal forming is basically conversion of a flat sheet metal into a product of desired shape without defect like fracture or excessive localised thinning.

In automobiles the sheet metal is deformed into the desired and brought into the required form to get autobody pressings like bonnet, bumpers, doors, etc. In aircraft's sheet metal is used for making the entire fuselage wings and (body). In domestic applications sheet metal is used for making many parts like washing machine body and covers, iron tops, timepiece cases, fan blades and casing, cooking utensils etc.

The products made by sheet-forming processes include a large variety of shapes and sizes, ranging from simple bends to double curvatures with shallow or deep recesses. Typical examples are metal desks, appliance bodies, aircraft panels, beverage cans, auto bodies, and kitchen utensils. In many cases while deforming the sheet metal, the component fractures at certain point. The causes of failure are parameters related to forming process.

Traditional evaluation of formability is based on both intrinsic tests and simulative tests.

The intrinsic tests measure the basic characteristic properties of materials that can be related to their formability. These tests provide comprehensive information that is insensitive to the thickness and surface condition of the material. Examples of intrinsic tests are Uniaxial tensile test, Plane strain tensile test, Marciniak Biaxial Stretching test, Hydraulic Bulge test, Marciniak In-Plane Sheet torsion test, Miyazuchi shear test, Hardness test. The simulative tests subject the material to deformation that closely resembles the deformation that occurs in a particular forming operation. Examples of these tests include Ericksen , Olsen, Fukui, Swift tests.

# Sheet Metal Apprenticeship Study Guide

**Sabine Zange**



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## **Sheet Metal Apprenticeship Study Guide** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Sheet Metal Apprenticeship Study Guide**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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