## **Analysis of forming- Slab Method**

# R. Chandramouli Associate Dean-Research SASTRA University, Thanjavur-613 401

#### **Table of Contents**

ng - Slab Method <b>Error! Bookmark not de</b>	efined.
- Upsetting of a ring Error! Bookmark not de	efined.

#### Analysis of forming – Slab Method

### 1.Quiz - Key:

1. Mention the advantages of the slab method of forming analysis.

A simple force balance gives the forming load without complex mathematical analysis involved. It can be applied for a majority of the forming processes.

2. Why friction factor m is preferred over coefficient of sliding friction  $\mu$  in forming analysis?

m is independent of applied pressure p, whereas it appears that the coefficient of friction is dependent on p as per the relation:  $\tau = \mu p$ .

3. With friction factor, the forming load is found to be a linear function. How would you expect the forming load to vary if coefficient of friction is considered? The forming load varies exponentially.