**Design and analysis of rivet joint**

**ABSTRACT:**

A rivet is a cylindrical body called a shank with a head. A hot rivet is inserted into a whole passing through two clamped plates to be attached and the heads supported whilst a head is formed on the other end of the shank using a hammer or a special shaped tool. The plates are thus permanently attached.

When a hot rivet cools it contracts imposing a compressive (clamping) stress on the plates. The rivet itself is then in tension stress is equal to the yield stress of the rivet material. Design of joints is as important as that of machine components because a weak joint may spoil the utility of a carefully designed machine part. We design the model of river joint and perform the analysis in solid works.