



Research Paper

STRESS ANALYSIS OF RIVETED LAP JOINTSuyogkumar W Balbudhe^{1*} and S R Zaveri¹**Corresponding Author: Suyogkumar W Balbudhe,  Suyog24@yahoo.co.in*

This project deals with the stress analysis of riveted lap joints. The present work involves the appropriate configuration and characterization of these joints for maximum utilization. By using finite element method, stress and fracture analyses are carried out under both the residual stress field and external tensile loading. Using a two step simulation, riveting process and subsequent tensile loading of the lap joint are simulated to determine the residual and overall stress state. Residual stress state due to riveting is obtained by interference and clamping misfit method. By employing different interference and clamping misfit values, the effects of riveting process parameters on stress state are examined. Two cracks namely the semi elliptical surface crack at faying surfaces of plates and the quarter elliptical corner crack at rivet hole are the most widely observed crack types in riveted joints. Fracture analysis of cracked riveted joints is carried out by introducing these two crack types to the outer plate at a plane perpendicular to the loading. The finite element technique was used throughout the analysis of present work. The present work showed that riveted joints are superior in strengthening to the riveted joints. The riveted joint seems to strengthen and balance the stress and distributed uniformly. This improves the efficiency and life time of the riveted joints. Modeling is done by CATIA V 16.0 and analysis of riveted lap joint can be done by using ANSYS (Workbench) with a version of 14.0. FEM result can be analyzed with mathematical data.

Keywords: Riveted lap joint, Ansys workbench V14.0, Finite element technique riveted lap joint, Ansys workbench V14.0, Finite element technique

INTRODUCTION

Manufacturing large and complex structures is usually possible only when they are composed of assemblies of smaller parts joined together by variety of joining techniques since most products are impossible to be produced as a single piece. Manufacturing components and

then joining them into a single product is easier and less expensive than manufacturing the whole product at once. In order to ensure the manufacturability, and reduce the overall manufacturing cost, certain fastening and joining methods should be utilized. Mechanical fasteners can be described as devices that

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