

Evaluation Study of Alexander And Abramowicz Absorption Energy Models Using Thin Metallic Tube

H.J.MohamdAl-alkawi*, Wisam.A.bdul-latif* & Ayad.Aied.Mahuof **

Abstract

To estimate the models of Alexander and Abramwicz Aluminum alloy AISI

5052 tubes specimens are used under impact loading and room temperature. Two types of specimens are used the circular and square cross – section tubes with equal wall cross – sectional area. The main conclusions that can be drawn from this work are as follows:

- This study showed that the models of Alexander and Aromawicz are valid for the aluminum alloy.
- .The circular section specimens absorbed energy greater than the square cross section specimens.