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Journal Name:	Current Journal of Applied Science and Technology
Manuscript Number:	Ms_CJAST_35313
Title of the Manuscript:	INFLUENCE OF EXTERNAL MECHANICAL STIMULUS on RESPONSE OF LINKED STRUCTURES MADE FROM LIGHTWEIGHT METALS
Type of the Article	

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	1. What is the background of this research? Describe the specific purpose. 2. Explain in more detail Figure 6. 3. In Figure 8, 9, 10,... please correct the graph, change the "series 1, etc" → "a, b, c, ..." as shown. 4. Overall good, just Need to improve language in delivering the material.	1. This has necessitated both the need and purpose of examining their response when under the influence of loading or external mechanical stimulus. The resultant response characteristics under the influence of an external stimulus will concurrently establish possible and potential failure modes and locations while also providing viable alternatives and situations for alteration in design of the structure for purpose of its selection and use in weight-critical applications. Purpose of investigating the behavior of perforated metal plates and perforated metal sheets, under conditions of uniaxial loading, for both the two-dimensional and three-dimensional cases using the finite element method. To discuss the results of an investigation aimed at understanding the deformation that is induced in linked metal structures having a network of links of different thicknesses under conditions of both symmetric and asymmetric loading in uniaxial direction. 2. In Figure 6 is shown the stress versus strain curve for structures containing a network of thick links of the two chosen lightweight metals, i.e., 6061-T6 and C-10100 and upon uniform application of a load, i.e., endurance of the structure for the case of both symmetric loading and asymmetric loading, The stress versus strain curve shows a dissimilar behavior upon application of a symmetric load to a structure essentially containing a network of thick links, and the overall structure lasts just a little longer when compared one-on-one with asymmetric loading. For the case of asymmetric loading presence of stress concentration as a direct consequence of perforations in the chosen metal plate does play a crucial role in governing failure of the structure



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		3. This has been done, with difficulty and did take a lot of time since computer files were lost at the University 4. This has been done and carefully examined through the entire manuscript.
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		