

عنوان مقاله:

Investigating the effect of geometrical parameters on the energy absorption of re-entrant auxetic cell

محل انتشار:

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خلاصه مقاله:

Auxetic materials and structures have attracted attention due to their extraordinary mechanical properties. Different types of these structures have been designed and studied in different fields including mechanical and medical engineering. Absorption parameters including specific energy absorption and crushing force efficiency of these structures are a good criterion for comparing and selecting optimal structures and cells. This report is a study on the effect of angle change on re-entrant cell energy absorption. The simulation was done using Abaqus software. Finally, the parameters obtained from the simulation are compared with each other.

کلمات کلیدی:

Auxetic, Energy Absorption, Simulation, Re-entrant cell

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