سيويليكا - ناشر تخصصي مقالات كنفرانس ها و ژورنال ها گواهی ثبت مقاله در سيويليكا CIVILICA.com

عنوان مقاله:

Numerical Investigation of Aluminum Honey Comb Filled High Strength Steel Crash Box for the Effect of Honey Comb Physical Parameters on Crashworthiness Constant

محل انتشار:

مجله علم مهندسي خودرو, دوره 7, شماره 4 (سال: 1396)

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نویسندگان: K.ANNAMALAI G.BALAJI

خلاصه مقاله:

Fillers can be employed as reinforcement in the design of automobile crash boxes to improve its performance in terms of energy absorption, expected crushing fashion and initial peak force magnitude. The current research focuses on the investigation of crashworthiness of the high-strength steel (HSS) columns filled with reinforced aluminium honeycomb fillers. The crashworthiness of HSS steel crash boxes embedded with aluminium honeycomb of varying thickness and cell sizes are investigated. Five variants of honeycomb thickness, namely; Thickness-1, Thickness-1

كلمات كليدى:

Crashworthiness, crash box, aluminum honeycomb, V-Notch triggers and energy absorption

لینک ثابت مقاله در پایگاه سیویلیکا:

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