عنوان مقاله:

Experimental Study on the Expansion Process of Circular Thin-Walled Tubes

محل انتشار:

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خلاصه مقاله:

This article studies energy absorption behavior of expansion tubes under axial compression load by a conical die. For this purpose, some specimens were prepared with different diameters and wall thicknesses. The effects of expansion ratio, punch angle, diameter and friction on the axial load and energy absorption of the tubes were studied. Based on the experimental results, it is concluded that the expansion process on the circular tubes as an energy absorber has .good efficiency in the quasi-static loading condition

کلمات کلیدی: Axial load, Energy absorption, Forming, Thin–walled structure, Tube expansion

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