



Fig. 1. Direct inward inversion of frusta [60].

From: Aljawi AAN, Alghamdi AAA. Inversion of frusta as impact energy absorbers. In: Hassan MF, Megahed SM, editors. Current advances in mechanical design and production VII. New York: Pergamon Press, 2000:511–519.

See:

https://www.kau.edu.sa/CVEn.aspx?Site_ID=0002351&Lng=EN&URL=www.kau.edu.sa

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Alghamdi AAA. Protection of Saudi descent roads using metallic collapsible energy absorbers. In: Final Report Submitted to KACST, Riyadh, Saudi Arabia, Grant Number 98-2-74, April., 2000.

Alghamdi AAA, Aljawi AAN, Abu-Mansour TMN, Mazi RAA. (2000) "Axial crushing of frusta between two parallel plates." In: Zhao XL, Grzebieta RH, editors. Structural failure and plasticity. New York: Pergamon Press;. p. 545–550.

Aljawi AAN, Alghamdi AAA. Inversion of frusta as impact energy absorbers. In: Hassan MF, Megahed SM, editors. Current advances in mechanical design and production VII. New York: Pergamon Press, 2000:511–519.

A. A. N. Aljawi, A. A. A. Alghamdi and T. M.-N. Abu-Mansour, Inward Inversion of Capped End Frusta as Impact Energy Absorbers, International Journal of Impact engineering (Submitted), 2000.

Alghamdi, A. A. A., 2001, "Collapsible impact energy absorbers: an overview", Thin-walled Struct., 39, pp. 189-213.

A. A. Alghamdi, Three Dimensional Tubular Impact Energy Absorber, European Journal of Mechanical and Environmental Engineering, Vol. 47, No. 3, pp. 159-166, 2002

A. A. Alghamdi, Re-inversion of Aluminum Frusta, Thin-Walled Structures, 1037-1049, 2002.

Alghamdi., A. A. A., Aljawi, A. A. N., Abu-Mansour, T. M., Modes of axial collapse of unconstrained capped frusta, Int. J. of Mech. Sci., 44: 1145-1161, 2002.

A. A. Alghamdi, Space Trusses as Impact Energy Absorbers: An Experimental Study, 6th Saudi Engineering Conference, 63-77, 2002.

Aljawi AAN, Alghamdi AAA, Abu-Mansour TMN, Akyurt M (2005) Inward inversion of capped-end frusta as impact energy absorbers. Thin-Walled Struct 43:647–664