

عنوان مقاله:

Some Numerical and Experimental Studies on the Indentation Forging of Thick-Walled Tubes

محل انتشار:

اولین کنفرانس بین المللی و هفتمین کنفرانس ملی مهندسی ساخت و تولید (سال: 1384)

تعداد صفحات اصل مقاله: 8

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خلاصه مقاله:

Indentation forging process is used for internal forming and sizing of thick-walled tubes designed to withstand high internal pressures. In this process, a mandrel with a diameter slightly larger than that of the tube is pressed inside the tube and in so doing, creates the internal profile. This paper presents an experimental and numerical study of this process. 2D Axisymmetric FEM analysis is used to investigate the effects of process parameters. Experiments are carried out to validate the numerical results.

کلمات کلیدی:

Indentation Forging, Thick-Walled Tube, Residual Stress, Finite Element

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