

عنوان مقاله:

Improvement of Fatigue Strength of Welded Joints in Stainless Steel by Ultrasonic Peening

محل انتشار:

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خلاصه مقاله:

The welded structures of stainless steels have lower fatigue strength in compare with other components; this makes necessary the use of additional strengthening treatments of the welded joints. Ultrasonic peening is one of the best ways to improve the fatigue life of welded joints. This effect is achieved by relieving of tensile residual stresses, formation of compressive residual stresses and decreasing of stress concentration of welds in toe zones. This work is dealing with the effect of ultrasonic peening on the welded structures of stainless steels. The required effectiveness of the ultrasonic peening treatment of stainless steel specimens is achieved

کلمات کلیدی:

Fatigue life improvement, Ultrasonic Impact technologies, stainless steel 304

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