

عنوان مقاله:

Effects of Machining Parameters on Cutting Force and Surface Roughness of the Superalloy Inconel 738

محل انتشار:

دومین کنفرانس بین المللی و هشتمین کنفرانس ملی مهندسی ساخت و تولید (سال: 1386)

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خلاصه مقاله:

This research represents an investigation on the effects of machining parameters such as feed rete, spindle speed and depth of cut on surface roughness and cutting force of hard-to-cut superalloy Inconel 738 in turning process. Inconel 738 has high strength at elevated temperature which makes it attractive toward various applications in aerospace industry and land-base turbines. A L32 Taguchi standard orthogonal array was used as the design of experiment (DOE). The level of importance of the machining parameters on Ra and force were determined by analysis of variance (ANOVA). Eventually the optimum of the effective parameter combinations were obtained by (using the analysis of signal to noise(S/N

کلمات کلیدی:

machining, superalloys, inconel738

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