

V nastoyashchee vremya vo mnogikh otraslyakh deyatelnosti cheloveka shiroko ispolzuyutsya rezhushchie instrumenty. Sushchestvuyut bolshoe kolichestvo metodov ikh uprochneniya, v tom chisle, is ispollzovaniem lazerov. Uprochnenie lazerom do nastoyashchego vremeni rassmatrivalsya kak protsess poverkhnostnoy obrabotki materialov za schet termicheskikh vozdeystviy vsledstvie oblucheniya. Nami predlagaetsya metod obemnogo lazernogo uprochneniya. Izmeneniya v materiale proiskhodyat za schet prokhozhdeniya v nem udarnoy volny, vyzvannoy lazernym oblucheniem. Dlya ee vzniknoveniya neobkhodimo izmenenie rezhimov oblucheniya (dlitelnost impulsa, diametr luchazera) po sravneniyu s poverkhnostnoy lazernoy obrabotkoy. V rabote privedeny rezultaty laboratornykh i proizvodstvennykh ispytaniy tverdospaynykh rezhushchikh instrumentov, proshedshikh obemnyu impulsnyu lazernuyu (OILU), a takzhe dannye podtverzhdayushchie vozninovenie i prokhozhdenie udarnoy volny v materiale.

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