عنوان مقاله:

Calculation of Forming Limit Diagrams

محل انتشار:

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

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نویسندگان:

H Noori - *Graduated Student School of Metallurgy and Materials Engineering.,Faculty of Engineering., University of Tehran,Tehran, Iran*

R Mahmudi - *Professor School of Metallurgy and Materials Engineering.,Faculty of Engineering., University of Tehran,Tehran, Iran*

خلاصه مقاله:

Forming Limit Diagrams (FLDs) are calculated based on analyses proposed by Jones and Gillis. They idealized the sheet metal deformation into three phases: (I) homogeneous deformation up to maximum load, (II) deformation localization under constant load, and (III) local necking with a precipitous drop in load. In the current analysis, Hill's quadratic flow law for sheets having planar isotropy is used in conjunction with the three-stage deformation approximation. Calculated FLDs are compared with experimentally determined result for interstitial free (IF) sheet.

کلمات کلیدی:

Forming Limit Diagram, prediction, JG analysis, Interstitial Free (IF) steel

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