

عنوان مقاله:

Adaptive Mesh Refinement in Modeling of Localization Problems

محل انتشار:

ششمین کنفرانس بین المللی مهندسی عمران (سال: 1382)

تعداد صفحات اصل مقاله: 8

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خلاصه مقاله:

In this paper, an h-adaptive strategy is applied in modelling of shear band localization. The distribution of required element size is computed sing its estimated error. The element is elongated in the direction of the minimum curvature, which is perpendicular to the direction of the maximum curvature. Once the new element size and its alignment are indicated, an automated procedure is used to construct the mesh. Finally, the numerical results are obtained for efficiency in modeling of two practical examples. It is shown how the adaptive mesh refinement can be applied to capture the correct path of the shear band using a non-local constitutive model to avoid loss of mesh objectivity

کلمات کلیدی:

Localization, Adaptive remeshing, Error indicator, Elongated element

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