Sancho, José M.; **Planas, Jaime**; **Fathy, Adel M.**; **Gálvez, Jaime C.**; **Cendón, David A.**
Three-dimensional simulation of concrete fracture using embedded crack elements without enforcing crack path continuity. (English) Zbl 1158.74042
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A nice theoretical foundation is first developed, and then the justification of the proposed theory is given through numerical experiments. It is shown that the local crack adaptibility is necessary to prevent crack locking. Interesting work for civil engineers.

Reviewer: Prabhat Kumar Mahanti (Saint John)

MSC:

74R10 Brittle fracture
74L10 Soil and rock mechanics
74S05 Finite element methods applied to problems in solid mechanics

Keywords:

cohesive crack; finite elements; local crack adaptibility

Software:

FEAP

Full Text: DOI

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