Finite element analysis of structures on the base of heterogeneous models

In the paper a simple fracturing model is presented using the 2D discrete element method capable of simulating large-scale brittle fracturing. It uses the combined MohrCoulomb and Rankine material model and mode I fracturing in the Rankine corner based on the rotating crack model. In the interactions between the bodies, the Coulomb friction model is considered by using a contact interface element and utilizing the penalty method in its formulation. The modified central difference scheme is used to solve the above explicit dynamic problem.

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