
Ansys 14.5 Crack [BEST]

in this webinar, we will demonstrate the use of ansys workbench for crack propagation analysis. you will learn how a multiphysics workflow in ansys workbench integrated with ansys mechanical and ansys fluent can be established for this purpose. our smart (separating morphing and adaptive remeshing technology) crack growth capability will be employed to analyze crack growth due to thermo-mechanical fatigue (tmf). the nonlinear finite element model for the analysis of the thermo-mechanical fatigue (tmf) of concrete subjected to cyclic loading has been developed in this research. the general purpose finite element package, ansys 8.0, is employed for the numerical analyses. using solid65 solid elements, the compressive crushing of concrete is facilitated using plasticity algorithm while the concrete cracking in tension zone is accommodated by the nonlinear material model. smeared reinforcement is used and introduced as a percentage of steel embedded in concrete. the concrete beam models have been developed in this research project for beam strength assessments. the model for the crack propagation due to thermo-mechanical fatigue (tmf) has been developed for this research project. a wide range of results has been achieved in this project. the thermo-mechanical fatigue has been studied for concrete beam subjected to vertical loading. the strain, stress and displacement data are used to quantify the crack growth. the crack growth in the beam is studied using a nonlinear finite element model. the crack growth rates are found to be high for the beams which are subjected to higher strain levels. the crack growth path is found to be in the form of dog-bone type path.

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Fig. 8 shows the change in the crack and mesh configuration. The crack oscillates around the hole and extends zero length in the direction of the crack tip. This is consistent with a stress-relief crack.

For each zero-length crack, there is an identical crack back-stepping towards the hole and then extending in a spiral path. K_2 rises from 0 at the start of the run and drops to around -1.1 for the last stress cycle. The in-plane shearing mode 2 is strongest in the direction of the crack, which indicates that the crack growth is in the direction of maximum shear stress. The peak stress intensities are approximately 48 MJ/m³ (in the plane), with the minimum being 34 MJ/m³ at the end of the run. The

analysis highlights the importance of Mode 2, especially the shear stress component. This is consistent with the observed crack extension. The model has five Failure Modes: brittle fracture, plastic hinge, cohesive fracture, cohesive fracture and cohesive failure. There is very little difference between the fractured response of the two plates: the final models are not very different. Either the

hole is arresting the crack or it is absorbing any significant loads, or it is bypassing the hole and arresting the crack. I then measured the Mode 2 shearing stress in the XY plots and, unexpectedly, found that the Mode 2 stress is asymmetrical about the origin, with a maximum near the origin and a minimum near the edge. The direction of shear is not significant, indicating that the crack is extending in the direction of the maximum shear stress. This is due to the hole, which removes the maximum shear stress for the Mode 2 shear plane from the surface. For smaller hole size, the maximum stress will be closer to the centre of the hole, reducing the minimum stress in that plane.

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