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4.12. Cohesive Zone Material (CZM) Model

A micromechanical cohesive zone model that introduces ductility at the crack tip has been used to simulate the cracking of asphalt mixtures. ABAQUS software is a convenient finite element method to conduct simulations of particular laboratory specimens such as Indirect Tensile Tests(IDT) considering the micromechanical model.

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Implementation of the phase-field regularized cohesive zone model (PF-CZM) into ABAQUS. Note: The routines are programmed in the free format syntax of FORTRAN90. Currently the UEL sub-routines can only be run in serial computation. usage: abaqus interactive job=bending_bfgr user=pfczm_bfgr.

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