EQUIVALENT DOMAIN INTEGRAL
EVALUATION IN FRACTURE PROBLEMS

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SUMMARY

For mixed - mode fracture problems in three - dimensional solids, the general formulation of the equivalent domain integral (EDI) method is presented. The total J - integral is split into J_I, J_{II}, and J_{III} for the three modes of deformation. The method can be used as a post - processing subroutine in the SAPLI linear elastic finite element program.