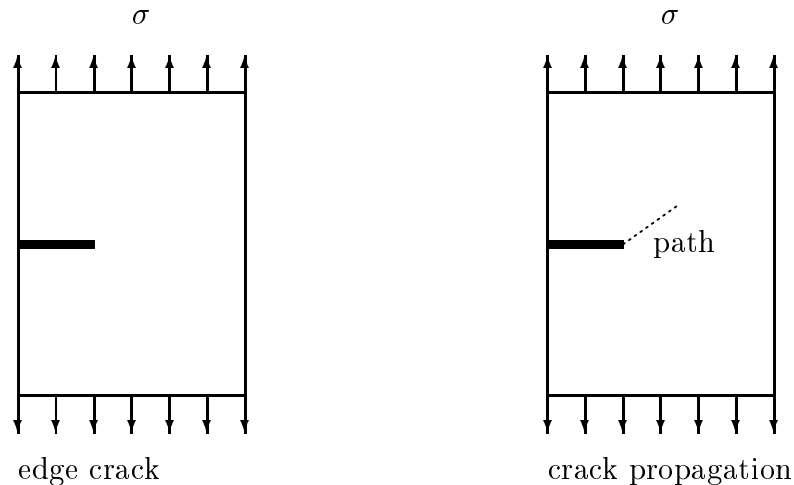


程式2 BEASY-CRACK



1. Find the stress intensity factor(K_I) for the edge crack problem by dual BEM.
2. Predict the path of crack propagation under fatigue loading.
3. Please show
 - (1) BEM mesh
 - (2) Constraint (boundary condition)
 - (3) Deformed plot
 - (4) Some interior points
 - (5) Max and min principal stress plot on undeformed geometry
 - (6) Max and min principal stress plot on deformed geometry
 - (7) The path of crack propagation

References

- [1] 陳正宗、林信立、邱垂鈺、黃志勇、全湘偉、韓文仁與秦無忝，1996，有限元素分析與工程實例—MSC/NASTRAN 軟體應用，700 面，北門圖書，台北。
- [2] H.-K. Hong and J. T. Chen, 1988, Derivations of Integral Equations of Elasticity, Journal of Engineering Mechanics, ASCE, Vol.114, No.6, pp.1028-1044.(SCI and EI)
- [3] S. W. Chyuan, J. H. Lin, J. T. Chen and D. C. Liu, 2000, Dual boundary element analysis for fatigue behavior of missile structure, J. Chinese Institute of Engineers, Vol.23, No.3, pp.339-348. (SCI and EI)