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The fracture mechanics problems was analysed by Benson et al. ... Fracture mechanics: inverse problems and solutions, vol. 139, Springer Science & Business Media (2007) C.A. Rogers, A.J. Kassab, E.A. Divo, Z. Ostrowski, R.A. Bialecki An inverse POD-RBF network approach to parameter estimation in mechanics.

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Fracture mechanics is the field of mechanics concerned with the study of the propagation of cracks in materials. It uses methods of analytical solid mechanics to calculate the driving force on a crack and those of experimental solid mechanics to characterize the material's resistance to fracture.. In modern materials science, fracture mechanics is an important tool used to improve the ...

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Although early approaches have striven to predict fracture by analyzing the behavior of atomic bonds, Griffith has shown in 1921 that attention should be given to the behavior of an existing crack. Fig. 1.6 : Tensile test with axial elongation and fracture. Fracture mechanics In fracture mechanics attention is basically focused on a single crack.

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Some authors obtained fracture mechanics parameters within the framework of CCFFM or LEBIM using an inverse analysis. Using the analytical solutions for PPST obtained in a previous investigation by the present authors [27] , an inverse analysis was developed to determine two parameters needed for the present procedure:  $G_{IIc}$  and  $\tau_c$  .

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reinforcing steels from surface crack opening displacements (CODs) is the inverse problem of a fracture mechanics based transformation. The transformation is an integral transform derived by following the weight function method of determining stress intensity factors. The direct problem of the transformation solves for CODs with known

### **Title Author(s) Nazmul, I. M.; Matsumoto, T. Issue Date DOI**

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fracture mechanics or the quantized fracture mechanics theories. therefore, the basic concepts ... when the problem is reduced to that of a smooth crack and when the ... If the inverse cosine function in (1) is denoted by  $y$ , then both sides of the resulting equality  $1 - \cos \frac{1}{y} R_X = + (3)$

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