## Formulation for multiple curved and kinked cracks problems in antiplane elasticity

## **ABSTRACT**

Formulation in term of hypersingular integral equation for multiple curved and kinked cracks in antiplane elasticity are obtained using the complex variable function. The curved length coordinate technique and a suitable numerical scheme for such an integral are developed to solve numerically for the unknown function, which are later used to find the stress intensity factor, SIF.

Keyword: Curved length coordinate method; Hypersingular integral equation; Stress intensity factor