$\underline{\eta}_n, \eta$

$\begin{cases} \sigma_{\xi\xi}\,(\xi, l) = 0 \\ \sigma_{\eta\eta}\,(\xi, l) = 0 \\ \tau_{\xi\eta}\,(\xi, l) = 0 \end{cases}$

$D \equiv (-l, +l)$

$C \equiv (+l, +l)$

l

l

$\left(0, R_f\right)$

L

Γ_4

a

H

Γ_2

l

I

R_f

$\Delta\theta$

$\Delta\theta$

$u\,(l, z)_x = \bar{\varepsilon} \cdot l$

$\left(-R_f, 0\right)$

θ

$\left(R_f, 0\right)$

$\underline{\xi}_n, \xi$

O

$u\,(-l, z) = -\bar{\varepsilon}_x \cdot l$

Ω_f

l

Γ_1

Γ_3

Ω_m

$\left(0, -R_f\right)$

$A \equiv (-l, -l)$

$B \equiv (+l, -l)$

$\begin{cases} \sigma_{\xi\xi}\,(\xi, -l) = 0 \\ \sigma_{\eta\eta}\,(\xi, -l) = 0 \\ \tau_{\xi\eta}\,(\xi, -l) = 0 \end{cases}$

$[\phi_1]$

Initiation	**Growth**
VCCT	CZM
J-Integral	X-FEM