Displacements (Resumo I)

pag 24

$$u_2 = \frac{A(1+\sigma)}{E}\left\{\frac{\partial^2 V_2}{\partial x \partial z} + (3-4\sigma)\frac{\partial V_2}{\partial x}\right\}$$

$$v_2 = \frac{A(1+\sigma)}{E}\left\{\frac{\partial^2 V_2}{\partial y \partial z} + (3-4\sigma)\frac{\partial V_2}{\partial y}\right\}$$

$$w_2 = \frac{A(1+\sigma)}{E}\left\{\frac{\partial^2 V_2}{\partial z^2} - (3-4\sigma)\frac{\partial V_2}{\partial z}\right\}$$

↳ pag 21 (igual tempon eq 19)

pag 25

$$u_1 = \frac{A(1+\sigma)}{E}\frac{\partial V_1}{\partial x} = \frac{A(1+\sigma)}{E}\left[\frac{-x}{R_1^3}\right]$$

Pg 4

$$v_1 = \frac{A(1+\sigma)}{E}\frac{\partial V_1}{\partial y} = \frac{A(1+\sigma)}{E}\left(\frac{-y}{R_1^3}\right)$$

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$$w_1 = \frac{A(1+\sigma)}{E}\frac{\partial V_1}{\partial z} = \frac{A(1+\sigma)}{E}\left(\frac{-(z-c)}{R_1^3}\right)$$

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u_1 v_1 w_1 = Shanna eqs.

Stress — Resumo 2

$$\hat{xz}_1 = \frac{3A\,x\,(z-c)}{R_1^5} \qquad \text{pg 5}$$

$$\hat{yz}_1 = \frac{3A\,y\,(z-c)}{R_1^5} \qquad \text{pg 6.}$$

$$\hat{zz}_1 = A\left[-\frac{1}{R_1^3} + \frac{3(z-c)^2}{R5}\right] \qquad \text{pg 7}$$

$\hat{xz}_1$, $\hat{yz}_1$ e $\hat{zz}_1$ igual a Shama 6

$$\hat{xz}_2 = 2Az\frac{\partial^3 V_2}{\partial x \partial z^2} + \frac{A\,\partial^2 V_2}{\partial x \partial z} \qquad \text{pg 16}$$

$$\hat{yz}_2 = 2Az\frac{\partial^3 V_2}{\partial y \partial z^2} + A\frac{\partial^2 V_2}{\partial y \partial z} \qquad \text{pg 17}$$

$$\hat{zz}_2 = 2Az\frac{\partial^3 V_2}{\partial z^3} - A\frac{\partial^2 V_2}{\partial^2 z}. \qquad \text{pg 18}$$

$\tilde{zz}_2$ = shama 10c.
= Tempora 16c

$\hat{xz}_2$ = sharma eq 10a
≠ Tempora eq 16a (sinal oposto)

$\hat{yz}_2$ = shama eq 10b
≠ Tempora eq 16a. (sinal igual)