$$\bar{t}_2^S = f(t)$$
$$\bar{u}_{S1} = 0$$
$$\bar{u}_{S2} = 0$$
$$\bar{v}_{S1} = 0$$
$$\bar{v}_{S2} = 0$$
$$\bar{v}_{F1} = 0$$
$$\bar{v}_{F2} = 0$$

$$f(t) =$$
$$10^3[1-$$
$$\cos(20\,\pi\,t)\,]N/m^2. \, For\,higher\,mesh\,levels, see\,also\,Table\,??.$$

u_{S1}
u_{S2}
v_{F1}
v_{Fy}
p
v_{S1}
v_{S2}
p

$$\rho^S u_{S,tt} = \underbrace{(\lambda^S + 2\mu^S)u_{S,yy}}_{\doteq \sigma_E^S} - n^S p_{,y} + (n^F)^2\,\gamma k^F\,(u_{F,t} - u_{S,t})$$

$$\rho^F u_{F,tt} = -n^F p_{,y} - (n^F)^2\,\gamma k^F\,(u_{F,t} - u_{S,t})$$
$${}^S u_{S,ty} +$$
$$n^F u_{F,ty} =$$
$$0$$

$k^F \doteq$
10^{-2}
m/s
$k^F \doteq$
10^{-5}
m/s
p
p

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