-divlog(a, g)) = 0 -div(a) = 0 PANT BC HEAT IS MAT ON PHE TOUND Pu(t) Mj = WALL VELOCITY SOLID DODAIN WHICH WILL ALSO DEFORD WE - divlop (3p, pp)) = 0 in ep(t) Mp = -20 Pp 3 (So Pp + d Q. 4) + Q. 4p = 0 INTERPACE CONDITIONS ON INTERPACE PLE) READ og. Mf + op. Mp = 0 $-(O_{J} \cdot n_{J}) \cdot n_{J} = P_{P}$ M_{J} . $M_{J} + \left(\frac{\partial \Sigma}{\partial t} + M_{\rho}\right) \cdot m_{\rho} = 0$ Mg. Tf+ 02. 7p = 0 WITH 3p THE CONPUTED DISPLACEMENT Stop = {x + 3p(x) | x & Spt } IN FLUID: FLUD PORAIN DISTLALERON 91 $-\Delta f_{\mathbf{f}}^{\mathbf{t}} = 0 \quad \text{in } \Delta f_{\mathbf{f}}^{\mathbf{t}}$ 3, = wall DISPLACEMENT on The

MARIN AT TITLE & , Sy(t), WART TO

SOLUTION STEPS FOR PORAIN COUPLING NOTE THAT $M_J \cdot m_J + \left(\frac{\partial \Sigma}{\partial t} + M_p\right) \cdot m_p = 0$ MJ. Tf+ 32.70 = 0 CAN BE KRITTON AS $n_{J} \cdot n_{J} \cdot \left(\frac{\partial \xi}{\partial t} + M_{p}\right) \cdot n_{f} = 0$ $n_{J} \cdot \tau_{f} - \frac{\partial \xi}{\partial t} \cdot \eta_{f} = 0$ $n_{J} \cdot \tau_{f} - \frac{\partial \xi}{\partial t} \cdot \eta_{f} = 0$ $n_{J} \cdot \tau_{f} - \frac{\partial \xi}{\partial t} \cdot \eta_{f} = 0$ $n_{J} \cdot \tau_{f} - \frac{\partial \xi}{\partial t} \cdot \eta_{f} = 0$ $n_{J} \cdot \tau_{f} - \frac{\partial \xi}{\partial t} \cdot \eta_{f} = 0$ $n_{J} \cdot \tau_{f} - \frac{\partial \xi}{\partial t} \cdot \eta_{f} = 0$ $n_{J} \cdot \tau_{f} - \frac{\partial \xi}{\partial t} - (n_{p} \cdot n_{f}) \cdot n_{f} = 0$ $n_{J} \cdot \tau_{f} - \frac{\partial \xi}{\partial t} \cdot \eta_{f} = 0$ $n_{J} \cdot \tau_{f} - \frac{\partial \xi}{\partial t} \cdot \eta_{f} = 0$ $n_{J} \cdot \tau_{f} - \frac{\partial \xi}{\partial t} \cdot \eta_{f} = 0$ $-4.(\sigma_{1})=0 \qquad \text{with BC of } -9. \text{ mp} = 0$ $-9. \text{ mp} = 0 \qquad \text{of mp} \neq 0$ $-4. \text{ My } = 0 \qquad \text{of mp} \neq 0$ $-4. \text{ My } = 0 \qquad \text{of mp} \neq 0$ $-4. \text{ My } = 0 \qquad \text{of mp} \neq 0$ $-4. \text{ My } = 0 \qquad \text{of mp} \neq 0$ in op Mp = -20 Pp 3 (So Pp + X J. 9) + J. 4 = 0 ANTIBET ON PT WE SET (WEARLY) pp = -(oj. mj). nj FIX (STRONGLY) PISPLACETERT USING of = My - (ap nglay) TAKEN FLOW of PREV STEP 3) DORAIN UPDATES AS DESCRIBED BEFORE