Computational Physics 08/22/2020 HW7 Sunday po-ax; ux= a Re (1-y2)/2 va V. u = dux + duy = d [x Re (1-y2)/2] it = Dit = Dux î + Duy î = are (-2 y dy) î +0
2t 2t 7t 7t 72 = - & Re y uy 1 = 0 (\(\vec{u} \) \(\vec{u} \) = \(\ - Vp = - 2pî - 2pĵ = xi $\nabla^{2}u = \frac{\partial^{2}u}{\partial x^{2}} + \frac{\partial^{2}u}{\partial x^{2}} = \frac{\partial^{2}u}{\partial x^{2}} + \frac{\partial^{2}u}{\partial x^{2}}$ $Re^{-1} \nabla^2 \vec{u} = -\alpha i$: $PHS = -\nabla p + Re^{-1} \nabla^2 u = 0$: $p = po - \alpha x$, $u_x = \alpha Re(1-y^2)/2$, $u_y = 0$ is a solⁿ to NS eqn for any α (pr

Scanned with CamScanner



