Guided week in a plate Daniel A. Kiefer $\begin{array}{c|c} \mathcal{E}_{y} & & & \\ & \mathcal{E}_{y} & & \\ & \mathcal{E}_{x} & &$ Institut langerin Paris, 01. 2022 · harmonic particle displacements: u(x,y,z,t) = u(x,y,z)e o eg. of motion for u(xy, E): (V.T + gw2 x = 0 balance of linear momentum T=C: Pu material + Kinematiks 1 7 & Tu + gw2u = 0 Navier's eq. · boundary conditions: (2) Eg.] = Eg. (2) Pu = Q · guided wave ansatz: ex(x,y,z) = x(y)eikx def. PI= ikex + endy + Oez => Vu = ikeu + e au (ike + eydy). c. (ike + eydy). x + Swee = 0 =) [(ik)2ex = ex + ik (ex c. ey) + ex (ex ay) + e, c. en 2 7 m + sw2m = 0 ([(ik)2 Exx + ik (Exg + Eyx) by + Eyx by2 + Sw2] .x= P 2) guided were eigenvalue problem (differential)



