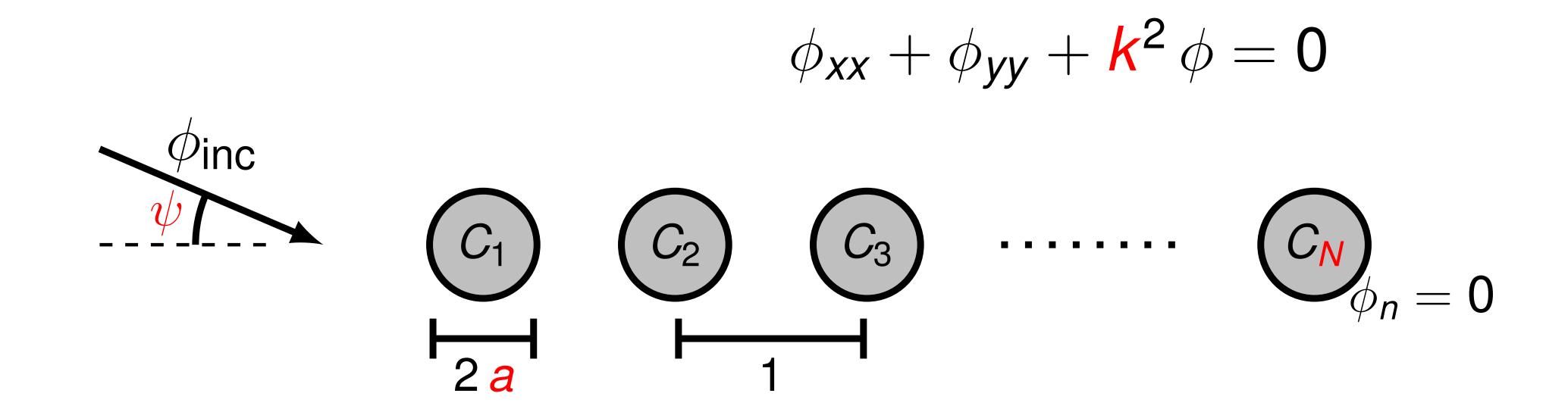
Problem considered

- Straight-line array of N vertical cylinders.
- Plane incident wave $\phi_{\text{inc}} = \varphi(x, y : \psi)$: $\varphi = \exp\{i k (x \cos \psi + y \sin \psi)\}$.
- Time-harmonic conditions at angular frequency ω .
- Reduce to 2D problem shown below: k tanh $(kH) = \omega^2 / g$.
- Nondimensionalised \longrightarrow parameters: k, ψ , N, a.



999

Resonant loads: Maniar & Newman (1997, J Fluid Mech)

Load on middle cylinder C₅

