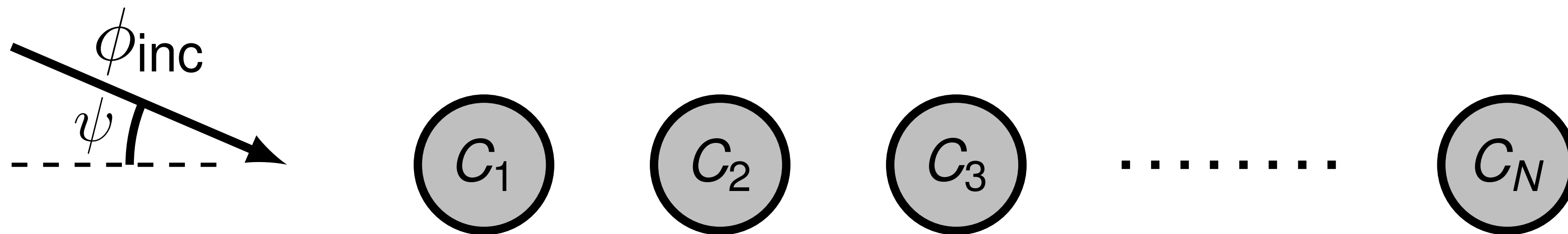


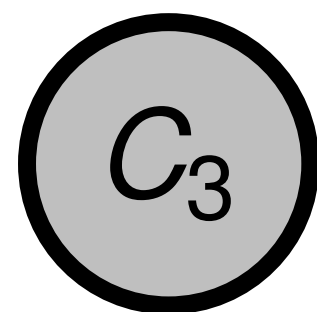
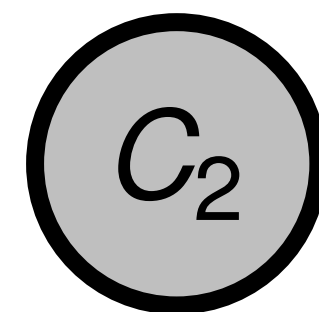
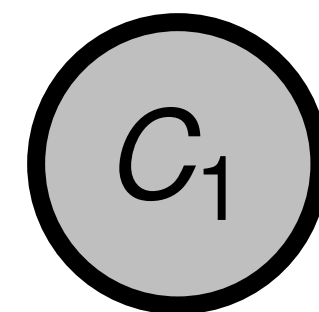
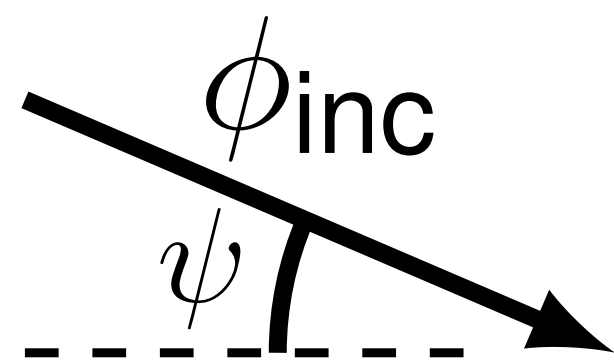
Problem considered

- 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 .

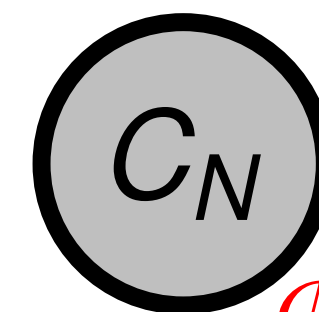


Problem considered

- 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: $k \tanh(k H) = \omega^2 / g$.



.....



$$\phi_n = 0$$

$$\phi_{xx} + \phi_{yy} + k^2 \phi = 0$$