Extra slides

Calculating Rayleigh–Bloch waves: Standard approach

Method: Fixed geometry and $k \in \mathbb{R}$

- Apply (Graf) interaction theory along infinite array.
- Assume quasi-periodicity $\exp(\mathrm{i}\,n\,\beta)$ between cylinders ($n \in \mathbb{Z}$).
- Use lattice sums and derive homogeneous system.
- Determinant = dispersion relation for β.