
Chapter 12

Diffraction

Jean-Louis Migeot

From diffraction to radiation

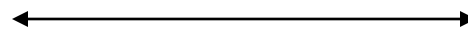
$$\partial_{ii}p + k^2p = f$$

$$p = \bar{p} \quad \text{sur} \quad \Gamma_p$$

$$\partial_n p = -i\rho\omega\bar{v}_n \quad \text{sur} \quad \Gamma_v$$

$$\partial_n p = -i\rho\omega A_n p \quad \text{sur} \quad \Gamma_Z$$

$$p_s = p - p_i$$



$$\partial_{ii}p_i + k^2p_i = f$$

$$\partial_{ii}p_s + k^2p_s = O$$

$$p_s = \bar{p} - p_i \quad \text{sur} \quad \Gamma_p$$

$$\partial_n p_s = -i\rho\omega\bar{v}_n - \partial_n p_i \quad \text{sur} \quad \Gamma_v$$

$$\partial_n p_s = -i\rho\omega A_n p - \partial_n p_i \quad \text{sur} \quad \Gamma_Z$$