程式22 Marine detection

radiation problems:
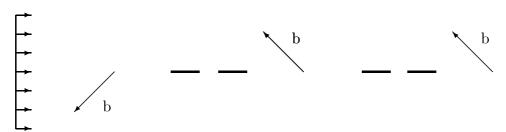

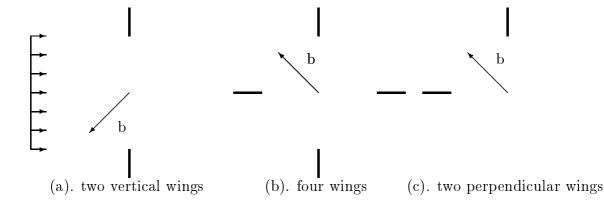(a). one right wing   (b). two wings   (c). four wings

scattering problems:

(a). one right wing   (b). two wings   (c). one left wing

(a). two vertical wings   (b). four wings   (c). two perpendicular wings

1. Problem statement:

    Governing equation:

$$(\nabla^2 + k^2)u(r,\theta) = 0, (r,\theta) \ in \ D$$

Boundary conditions: radiation case and scattering case

2. Output: radiation field and scattering field

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