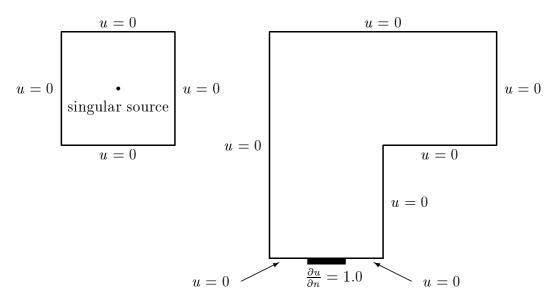
## 1

## 程式18 Interior problem



- (a). square cavity with singular source
- (b). L shape cavity

Governing equation:

For a square problem:

$$(\nabla^2 + k^2)u(x_1, x_2) = 0$$

For a L-shape problem:

$$(\nabla^2 + k^2)u(x_1, x_2) = 0$$

Boundary conditions:

For a square problem:

$$u(x_1, x_2) = 0$$
, x on boundary

For a L-shape problem: as shown in the figure

Analytical solution:

## ▶海大河工系陳正宗 邊界元素法

【存檔:c:/ctex/course/beprog18.te(fig18.te)】【建檔:Jan./13/'97】