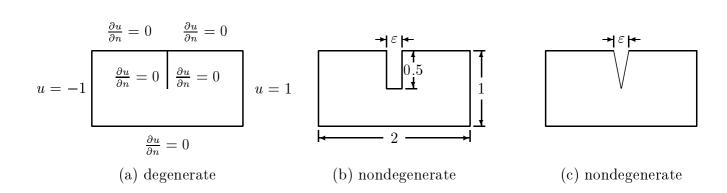
## 示範程式例 BEPO2D



1. Problem statement

G.E.:

$$\nabla^2 u(x,y) = 0, \qquad (x,y) \in D$$

B.C.: as shown in the figure.

- **2.** Solve u(x,y) for case (a) by dual BEM.
- **3.** Solve u(x,y) for case (b) and (c) by U-T and L-M method,
- **4.** Discuss the results due to the change of  $\varepsilon$  and compare with dual BEM.

## References

- [1] J. T. Chen, H. K. Hong and Chyuan, S. W., Boundary Element Analysis and Design in Seepage Flow Problems with Sheetpiles. Finite Elements in Analysis and Design, 17, 1-20, (1994).
- [2] O. E. Lafe, J. S. Montes, A. H. D. Cheng, J. A. Liggett and P. L-F. Liu, Singularity in Darcy Flow Through Porous Media, J. Hydraul. Div. ASCE, 106, HY6, pp. 977-997, 1980.

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