

程式 90 Two holes Laplace problem

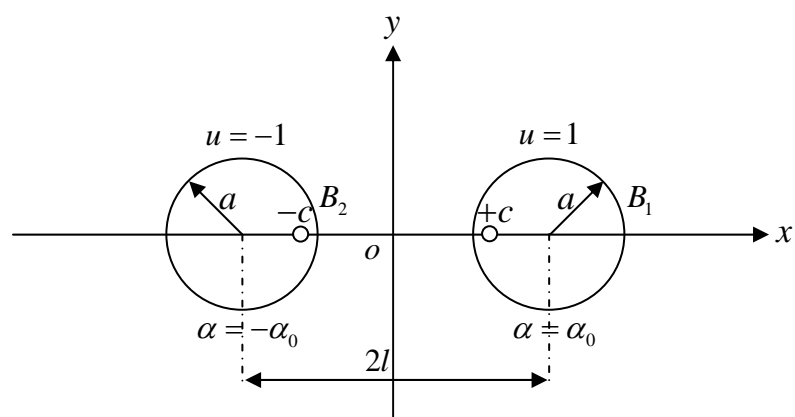
Governing equation : $\nabla^2 u = 0$

Boundary condition : $u = 1$ on B_1

$u = -1$ on B_2

Analytical solution : $u = \frac{\alpha}{\alpha_0}$

where $\cosh \alpha_0 = \frac{l}{a}$



Reference

1. N. N. Lebedev, I. P. Skalskaya and Y. S. Uyand, Worked problem in applied mathematics, *General Publishing Company, Ltd.*, Canada, 1979.