

Boundary value problem and application

Laplace equation: $\nabla^2 u = 0$ — (1)

$$\nabla^2 u = \frac{\partial^2 u}{\partial r^2} + \frac{1}{r} \frac{\partial u}{\partial r} + \frac{1}{r^2} \frac{\partial^2 u}{\partial \theta^2}, \quad 0 < r < a$$

$$0 < \theta \leq 2\pi$$

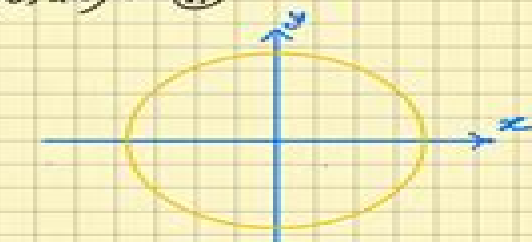
$$u(a, \theta) = f(\theta) \text{ for all } \theta \text{ in } (0, 2\pi) \text{ — (1')}$$

$$u(r, \theta) = R(r) \Theta(\theta) \neq 0$$

$$r^2 \frac{R''}{R} + r \frac{R'}{R} = -\frac{\Theta''}{\Theta} = \lambda.$$

$$r^2 \frac{R''}{R} + r \frac{R'}{R} = \lambda. \text{ — (1'')} \quad \text{--- (1'')}$$

$$\Theta'' + \lambda \Theta = 0. \text{ — (1''')} \quad \text{--- (1''')}$$



*Ref. Linear partial differential equations for Scientists & Engineers
Sternberg, Dieckmann*

$$\Theta(0) = \Theta(2\pi) \text{ and } \Theta'(0) = \Theta'(2\pi)$$

The periodicity conditions ensure us the function Θ is single valued, the case $\lambda < 0$ does not yield an acceptable solution.

$$\Theta = C\theta + D$$

$$r^2 \frac{R''}{R} + r \frac{R'}{R} = \lambda = 0$$

$$r^2 \frac{R''}{R} + r \frac{R'}{R} = 0$$

$$\frac{-B}{A+B\ln r} + \frac{B}{A+B\ln r} = 0$$

$$\text{let } R = A + B \ln r$$

$$R' = B/r$$

$$R'' = -B/r^2$$

$$\Rightarrow u(r, \theta) = (A + B \ln r)(C\theta + D)$$

$$\text{Since } \ln r \rightarrow -\infty \text{ as } r \rightarrow 0^+$$

(note that $r=0$ is a singular point of equation (1))

Solid Boundry Value Problems

Jiyuan Zhang



Solid Boundry Value Problems:

Whispering the Techniques of Language: An Emotional Quest through **Solid Boundry Value Problems**

In a digitally-driven earth where screens reign great and instant conversation drowns out the subtleties of language, the profound secrets and psychological nuances hidden within words often move unheard. However, located within the pages of **Solid Boundry Value Problems** a fascinating literary treasure sporting with natural emotions, lies an extraordinary journey waiting to be undertaken. Written by a skilled wordsmith, that marvelous opus attracts readers on an introspective trip, softly unraveling the veiled truths and profound influence resonating within ab muscles material of each and every word. Within the emotional depths of the poignant evaluation, we will embark upon a honest exploration of the book is primary styles, dissect their charming writing design, and yield to the powerful resonance it evokes serious within the recesses of readers hearts.

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