

Solutions of Laplaces equation.

Routledge and K. Paul - Fourier Series Solution of Laplace's Equation

The solution of Laplace equation
 $\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} = 0$, where $0 \leq x \leq 3$
and $0 \leq y \leq 2$ with boundary
conditions $u(x, 0) = 1$,
 $u(0, y) = 3 + y$, $u(3, y) = 5 - y$,
 $u(x, 2) = 3 - x$ and taking step size
 $\Delta x = \Delta y = 1$, is=.....

Description: -

- Harmonic functionsSolutions of Laplaces equation.

- Library of mathematicsSolutions of Laplaces equation.

Notes: Bibliographical footnotes.

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Laplace's Equation

There's no signup, and no start or end dates. So the boundary function is a delta function with a spike at that one point, and 0 elsewhere.

Laplace's equation in a rectangle

And then if it is, we'll find an s. At that point you can go back and make your choices.

Laplace's equation in a rectangle

And the delta function, that point source, picks out that number at theta equals 0. I could do another function, but I don't think I will. The topic of computer solutions is discussed elsewhere.

Laplace's equation in a rectangle

And then you'll see the special, special role of x+iy in 2-D.

12.3: Laplace's Equation in Rectangular Coordinates

We've got solutions to Laplace's equation, coming from all the powers.

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