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the full Fourier series becomes half range fourier cosine series:  $b = \frac{Q}{2} \int_0^{\pi} f(x) \cos nx dx$  if  $n \neq 1$  (0 if  $n=1$ )  
Hif 1-1 Thus the Fourier aeries "becomess  $V = \frac{u}{K} \int_0^{\pi} (a \cos nx + b \sin nx) dx = \frac{u}{K} \left[ \frac{a}{n} \sin nx - \frac{b}{n} \cos nx \right]_0^{\pi}$   
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## Boundary Value Probl... And

it will be necessary to have some understanding of Fourier series. For example, we can see that the series  $y(x,t) = \sum_{n=1}^{\infty} \left[ A_n \cos \frac{n\pi x}{L} + B_n \sin \frac{n\pi x}{L} \right] \cos \frac{n\pi ct}{L}$ , (2.1) is a solution of the wave equation  $\frac{\partial^2 y}{\partial t^2} = c^2 \frac{\partial^2 y}{\partial x^2}$ ,  $x \in [0,L]$ ,  $t \geq 0$ , (2.2) which satisfies the boundary conditions  $y(0,t) = 0 = y(L,t)$ . (2.3)

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subjects : fourier series and boundary value problems. Dirichlet problems sinve each has prescribed values of  $u$  along the entire boundary of the region involved. Let be harmonic in the interior of a rectangular region  $0 \leq x \leq 1, 0 \leq y \leq 1$ , so that , (1) the boundary values are , , , (2) the boundary values are , , , (3) the boundary values are

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Published by McGraw-Hill since its first edition in 1941, this classic text is an introduction to Fourier series and their applications to boundary value problems in partial differential equations of engineering and physics. It will primarily be used by students with a background in ordinary

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