

Differential Equations With Boundary Value Problems Dennis G Zill

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Differential Equations With Boundary Value In mathematics, in the field of differential equations, a boundary value problem is a differential equation together with a set of additional constraints, called the boundary conditions. A solution to a boundary value problem is a solution to the differential equation which also satisfies the boundary conditions. Boundary value problems arise in several branches of physics as any physical differential equation will have them. Problems involving the wave equation, such as the determination of normal modes of a vibrating string, are typical examples of boundary value problems.

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Differential Equations - Boundary Value

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$\begin{cases} u_t - 3u_{xx} = 0 & \text{in } [0, \pi] \times (0, t] \\ u(x, 0) = 4 \sin \frac{x}{2} - \frac{4}{3} \sin \frac{x}{3} \end{cases}$

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