



# Partial Differential Equation

Laplace  
Equation

$$\Delta^2 \phi = \frac{\partial^2 \phi}{\partial x^2} + \frac{\partial^2 \phi}{\partial y^2} = 0$$

Heat Conduction  
Equation

$$\frac{\partial T}{\partial t} = c \frac{\partial^2 T}{\partial x^2}$$

Wave Equation of  
Vibrating Membrane

$$\frac{\partial^2 u}{\partial t^2} = c \left( \frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} \right)$$

# Introduction To Applied Partial Differential Equations

**Yi-Tong Ma**



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