

Partial Differential Equations

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- Method of characteristics
- Cauchy problem

2. *Second-Order Linear Equations*

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- Canonical forms

3. *Hyperbolic Equations*

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4. *Parabolic Equations*

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5. *Elliptic Equations*

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6. *Fourier Series and Applications*

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- Application to PDEs

7. *Boundary Value Problems*

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8. Integral Transform Methods

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