

CHAPTER OVERVIEW

12: Partial Differential Equations

Objectives

- Learn the method of separation of variables to solve simple partial differential equations.
- Understand how to apply the method of separation of variables to two important problems in the physical sciences: The wave equation in one dimension and molecular diffusion.

[12.1: Introduction to Partial Differential Equations](#)

[12.2: The Method of Separation of Variables](#)

[12.3: The Wave Equation in One Dimension](#)

[12.4: Molecular Diffusion](#)

[12.5: Problems](#)

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