

## CHAPTER OVERVIEW

### 5: Complex Oscillations

In physics and the other quantitative sciences, complex numbers are widely used for analyzing oscillations and waves. We begin our study of this topic with an important elementary model called the **damped harmonic oscillator**.

[5.1: The Damped Harmonic Oscillator](#)

[5.2: Complex Solution](#)

[5.3: General Solution for the Damped Harmonic Oscillator](#)

[5.4: Stating the Solution in Terms of Initial Conditions](#)

[5.5: Exercises](#)

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