



# Lectures, Problems and Solutions for Ordinary Differential Equations

*Yuefan Deng*

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## Lectures, Problems and Solutions for Ordinary Differential Equations Yuefan Deng

This unique book on ordinary differential equations addresses practical issues of composing and solving such equations by large number of examples and homework problems with solutions. These problems originate in engineering, finance, as well as science at appropriate levels that readers with the basic knowledge of calculus, physics or economics are assumed able to follow.

### Contents:

- First-Order Differential Equations

- Mathematical Models

- Linear DEs of Higher Order

- Systems of Linear DEs

- Laplace Transforms

- **Appendices:**

- Solutions to Selected Problems

- Laplace Transforms

- Derivatives & Integrals

- Abbreviations

- Teaching Plans

**Readership:** Undergraduate students and entry level graduate students in science and engineering who need to solve and compose ordinary differential equations.

**Key Features:**

- Students will love the practical value of the book in composing differential equations from applications and detailed solution methods demonstrated by a large number of examples including homework assignments
- Students will learn this subject much more easily by following the examples



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