

## Modified Equation

- In order to determine the dominant error term of a finite difference equation, Taylor series expansions are substituted back into the finite difference equation and, after some algebraic manipulation, the so-called modified equation is obtained.
- To illustrate the procedure, the following FTCS-Explicit scheme is considered as a numerical solution of the parabolic equation.

$$u_j^{n+1} = u_j^n + d(u_{j+1}^n - 2u_j^n + u_{j-1}^n) \quad \text{where} \quad d = \frac{\nu \Delta t}{(\Delta y)^2}$$

The following Taylor series expansions

$$u_j^{n+1} = u_j^n + \Delta t \left( \frac{\partial u}{\partial t} \right) + \frac{(\Delta t)^2}{2} \left( \frac{\partial^2 u}{\partial t^2} \right) + \frac{(\Delta t)^3}{3!} \left( \frac{\partial^3 u}{\partial t^3} \right) + \frac{(\Delta t)^4}{4!} \left( \frac{\partial^4 u}{\partial t^4} \right) + O(\Delta t)^5$$

$$u_{j\pm 1}^n = u_j^n \pm \Delta y \left( \frac{\partial u}{\partial y} \right) + \frac{(\Delta y)^2}{2} \left( \frac{\partial^2 u}{\partial y^2} \right) \pm \frac{(\Delta y)^3}{3!} \left( \frac{\partial^3 u}{\partial y^3} \right) + \frac{(\Delta y)^4}{4!} \left( \frac{\partial^4 u}{\partial y^4} \right) \pm O(\Delta y)^5$$

are substituted back into the FTCS scheme to obtain the modified equation.

*Dr. Ahmed M. Elsayed*

Dividing by  $\Delta t$  the following equation is obtained

$$\begin{aligned} & \frac{\partial u}{\partial t} + \frac{(\Delta t)}{2} \left( \frac{\partial^2 u}{\partial t^2} \right) + \frac{(\Delta t)^2}{3!} \left( \frac{\partial^3 u}{\partial t^3} \right) + \frac{(\Delta t)^3}{4!} \left( \frac{\partial^4 u}{\partial t^4} \right) + O(\Delta t)^4 \\ &= \nu \left[ \left( \frac{\partial^2 u}{\partial y^2} \right) + \frac{(\Delta y)^2}{12} \left( \frac{\partial^4 u}{\partial y^4} \right) + O(\Delta y)^4 \right] \end{aligned}$$

This equation can be written as

$$\frac{\partial u}{\partial t} - \nu \left( \frac{\partial^2 u}{\partial y^2} \right) = - \frac{(\Delta t)}{2} \left( \frac{\partial^2 u}{\partial t^2} \right) + \frac{\nu(\Delta y)^2}{12} \left( \frac{\partial^4 u}{\partial y^4} \right) + O[(\Delta t)^2, (\Delta y)^4]$$

Truncation error

To check the consistency of the scheme

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**Yijin Wang**



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## **Table of Contents Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics**

1. Understanding the eBook Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics
  - The Rise of Digital Reading Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics
  - Advantages of eBooks Over Traditional Books
2. Identifying Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics
  - User-Friendly Interface
4. Exploring eBook Recommendations from Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics
  - Personalized Recommendations
  - Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics User Reviews and Ratings
  - Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics and Bestseller Lists
5. Accessing Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics Free and Paid eBooks
  - Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics Public Domain eBooks
  - Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics eBook Subscription Services

- Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics Budget-Friendly Options
- 6. Navigating Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics eBook Formats
  - ePub, PDF, MOBI, and More
  - Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics Compatibility with Devices
  - Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics
  - Highlighting and Note-Taking Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics
  - Interactive Elements Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics
- 8. Staying Engaged with Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics
- 9. Balancing eBooks and Physical Books Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics
  - Setting Reading Goals Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics
  - Fact-Checking eBook Content of Elliptic Partial Differential Equations Courant Lecture Notes In Mathematics
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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