

5. (a) Describe the fundamental solution of heat equation.

(b) Prove that there exist at most one solution $u \in C_1^2(U_T)$ of the problem

$$u_t - \Delta u = f \text{ in } U_T$$

$$u = g \text{ on } \Gamma_T$$

where $U \in \mathbb{R}^n$ is open and bounded and ∂U is C^1 . The terminal time $T > 0$ is given.

6. (a) Find the solution of wave equation by spherical mean.

(b) Define energy method and prove the uniqueness of solution of wave equation.

SECTION – IV

7. (a) Describe the characteristic method for deriving the characteristic equation of the given non-linear first order partial differential equation :

$$F(Du, u, x) = 0 \text{ in } U, \text{ where } x \in U \subset \mathbb{R}^n$$

(b) State and derive Euler-Lagrange ordinary differential equation.

8. (a) The functions $\bar{x}(\cdot)$ and $\bar{p}(\cdot)$ satisfy Hamilton's equations :

$$\dot{\bar{x}}(s) = D_p H(\bar{p}(s), \bar{x}(s))$$

$$\dot{\bar{p}}(s) = -D_x H(\bar{p}(s), \bar{x}(s)), \quad (0 \leq s \leq t)$$

Prove that the mapping $s \rightarrow H(\bar{p}(s), \bar{x}(s))$ is constant.

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NAFTA and Sustainable Development Hoi L. Kong, L. Kinvin Wroth, 2015-08-07 This book assesses the current state of environmental protection under the North American Free Trade Agreement NAFTA Authors from all three member nations Canada Mexico and the United States analyze the agreements impact on such issues as bioengineered crops water policy climate change and indigenous rights

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The Microscopical News and Northern Microscopist, 1883

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Florian,2002 Fungal Facts provides a basis for understanding and solving fungal problems in objects and collections
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Table of Contents Nd Sem Paper

1. Understanding the eBook Nd Sem Paper
 - The Rise of Digital Reading Nd Sem Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Nd Sem Paper
 - 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 Nd Sem Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nd Sem Paper
 - Personalized Recommendations
 - Nd Sem Paper User Reviews and Ratings
 - Nd Sem Paper and Bestseller Lists
5. Accessing Nd Sem Paper Free and Paid eBooks

- Nd Sem Paper Public Domain eBooks
- Nd Sem Paper eBook Subscription Services
- Nd Sem Paper Budget-Friendly Options
- 6. Navigating Nd Sem Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Nd Sem Paper Compatibility with Devices
 - Nd Sem Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nd Sem Paper
 - Highlighting and Note-Taking Nd Sem Paper
 - Interactive Elements Nd Sem Paper
- 8. Staying Engaged with Nd Sem Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nd Sem Paper
- 9. Balancing eBooks and Physical Books Nd Sem Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nd Sem Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nd Sem Paper
 - Setting Reading Goals Nd Sem Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nd Sem Paper
 - Fact-Checking eBook Content of Nd Sem Paper
 - 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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