MAT 332+

TITLE: Numerical Analysis

COURSE CONTENT:

Polynomial and Spline Approximation: orthogonal polynomials and Chebyshev approximations, Least Squares and Hermite approximations. Numerical integration: Boundary Value Problems. Introduction to numerical solution of Partial differential equations. Numerical Computations using Subroutines.

30h (T), 45h (P); C : PR: MAT 212.

Orthogonal Polynomials.

We choose the approximation in the form

$$y(x) = a_0 f_0(x) + a_1 f_1(x) + \cdots + a_n f_n(x) \qquad (1)$$

where $f_j(x)$ is a polynomial in x of degree j. Then, we write

$$S(a_0, a_1, \cdots, a_n) = \int_a^b W(x)\{y(x) - [a_0 f_0(x) + a_1 f_1(x) + \cdots + a_n f_n(x)]\}^2 dx \qquad (2)$$

for S to be minimum, we must have

$$\frac{\partial S}{\partial a_0} = 0 = -2 \int_a^b W(x)\{y(x) - \{a_0 f_0(x) + \cdots + a_n f_n(x)\}\} f_0(x) dx$$

$$\frac{\partial S}{\partial a_1} = 0 = -2 \int_a^b W(x)[y(x) - \{a_0 f_0(x) + \cdots + a_n f_n(x)\}] f_1(x) dx \qquad \Bigg\} \quad (3)$$

$$\vdots$$

$$\frac{\partial S}{\partial a_n} = 0 = -2 \int_a^b W(x)[y(x) - \{a_0 f_0(x) + \cdots + a_n f_n(x)\}] f_n(x) dx$$

[Numerical Analysis Conf Hon Jean Meingue](#)

Rachel S Tattersall

Numerical Analysis Conf Hon Jean Meingue:

The book delves into Numerical Analysis Conf Hon Jean Meingue. Numerical Analysis Conf Hon Jean Meingue is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Numerical Analysis Conf Hon Jean Meingue, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

   - Chapter 1: Introduction to Numerical Analysis Conf Hon Jean Meingue
   - Chapter 2: Essential Elements of Numerical Analysis Conf Hon Jean Meingue
   - Chapter 3: Numerical Analysis Conf Hon Jean Meingue in Everyday Life
   - Chapter 4: Numerical Analysis Conf Hon Jean Meingue in Specific Contexts
   - Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Numerical Analysis Conf Hon Jean Meingue. This chapter will explore what Numerical Analysis Conf Hon Jean Meingue is, why Numerical Analysis Conf Hon Jean Meingue is vital, and how to effectively learn about Numerical Analysis Conf Hon Jean Meingue.
3. In chapter 2, the author will delve into the foundational concepts of Numerical Analysis Conf Hon Jean Meingue. The second chapter will elucidate the essential principles that need to be understood to grasp Numerical Analysis Conf Hon Jean Meingue in its entirety.
4. In chapter 3, this book will examine the practical applications of Numerical Analysis Conf Hon Jean Meingue in daily life. This chapter will showcase real-world examples of how Numerical Analysis Conf Hon Jean Meingue can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Numerical Analysis Conf Hon Jean Meingue in specific contexts. The fourth chapter will explore how Numerical Analysis Conf Hon Jean Meingue is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Numerical Analysis Conf Hon Jean Meingue. This chapter will summarize the key points that have been discussed throughout the book.
The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Numerical Analysis Conf Hon Jean Meingue.

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