

Error analysis

❖ Error Analysis

➤ Taylor series

$$\begin{aligned}y_{n+1} &= y_n + hy'_n + \frac{1}{2}h^2 \underbrace{y''_n}_{\left(\frac{y_{n+1} - y'_n}{h} + O(h)\right)} + \frac{1}{3}h^3 y'''(\xi) \\ &= y_n + hy'_n + \frac{1}{2}h^2 \left(\frac{y_{n+1} - y'_n}{h} + O(h) \right) + \frac{1}{3}h^3 y'''(\xi) \\ &= y_n + \frac{h}{2} [y'_n + y'_{n+1}] + \underbrace{O(h^3)}_{\text{truncation}}\end{aligned}$$

➤ Total error

$$O(h^2) \quad ; \text{ 2nd order method}$$

truncation
3rd order

✘ Significant improvement over Euler's method!



Error Analysis In Numerical Processes

Lauren Gardner



Error Analysis In Numerical Processes:

Whispering the Strategies of Language: An Emotional Quest through **Error Analysis In Numerical Processes**

In a digitally-driven world wherever screens reign supreme and immediate connection drowns out the subtleties of language, the profound strategies and emotional subtleties hidden within phrases frequently get unheard. Yet, located within the pages of **Error Analysis In Numerical Processes** a fascinating fictional value blinking with raw emotions, lies an extraordinary journey waiting to be undertaken. Composed by an experienced wordsmith, this marvelous opus attracts visitors on an introspective trip, softly unraveling the veiled truths and profound influence resonating within the very cloth of each word. Within the emotional depths with this poignant review, we can embark upon a genuine exploration of the book's key styles, dissect their fascinating publishing model, and succumb to the powerful resonance it evokes heavy within the recesses of readers' hearts.

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