$$K_{\nu}(z) = \sqrt{\frac{\pi}{2z}} e^{-z} \sum_{r=0}^{\infty} \frac{\Gamma(\nu + r + 1/2)}{r! \Gamma(\nu - r + 1/2)} (2z)^{-r}$$

is a divergent asymptotic series

$$= \sqrt{\frac{\pi}{2z}} e^{-z} \left[ 1 + \frac{(\nu + 1/2)(\nu - 1/2)}{2z} + \frac{(\nu + 3/2)(\nu + 1/2)(\nu - 1/2)(\nu - 3/2)}{2! (2z)^2} + \cdots \right]$$

Series terminates for  $v = \pm \frac{1}{2}, \pm \frac{3}{2}, \cdots$ 

$$x = \frac{1}{z} \rightarrow \frac{d}{dz} = -x^2 \frac{d}{dx} \qquad \frac{d^2}{dz^2} = 2x^3 \frac{d}{dx} + x^4 \frac{d^2}{dx^2}$$

$$R''(z) + \frac{1}{z}R'(z) - \left(1 + \frac{v^2}{z^2}\right)R = 0 \rightarrow x^4 R''(x) + x^3 R'(x) - \left(1 + v^2 x^2\right)R(x) = 0$$

$$R''(x) + \frac{1}{x}R'(x) - \frac{1}{x^2}\left(v^2 + \frac{1}{x^2}\right)R(x) = 0$$

$$\lim_{x \to 0} (x - 0)^2 \left[ -\frac{1}{x^2} \left( v^2 + \frac{1}{x^2} \right) \right] = -\infty \quad \to \quad z = \infty \text{ is an essential singularity}$$

∴ No convergent series solution about z = ∞.

# **Asymptotic Expansions Asymptotic Expansions**

A. Erdélyi

# **Asymptotic Expansions Asymptotic Expansions:**

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# **Table of Contents Asymptotic Expansions Asymptotic Expansions**

- 1. Understanding the eBook Asymptotic Expansions Asymptotic Expansions
  - The Rise of Digital Reading Asymptotic Expansions Asymptotic Expansions
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Asymptotic Expansions Asymptotic Expansions
  - 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 Asymptotic Expansions Asymptotic Expansions
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Asymptotic Expansions Asymptotic Expansions
  - Personalized Recommendations
  - Asymptotic Expansions Asymptotic Expansions User Reviews and Ratings
  - Asymptotic Expansions Asymptotic Expansions and Bestseller Lists

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