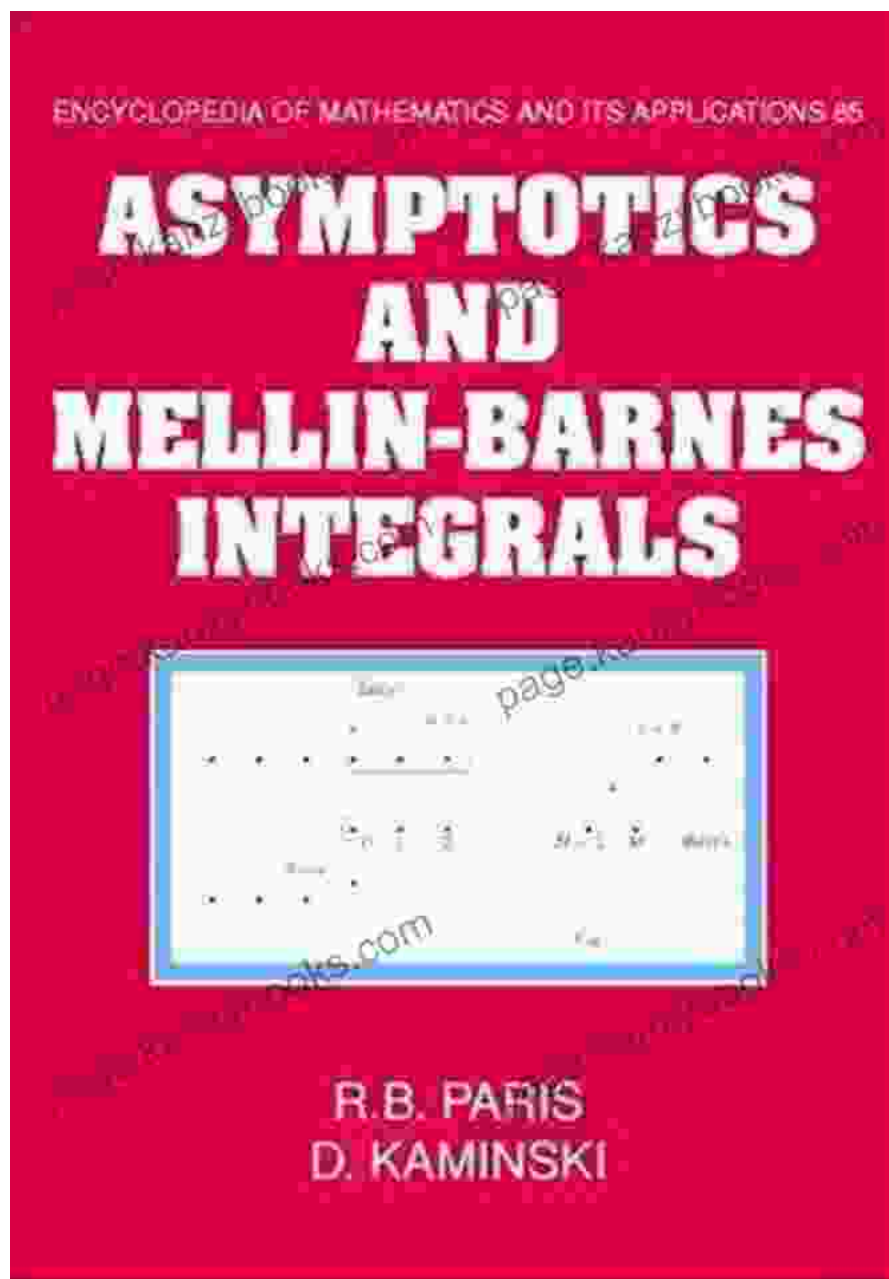
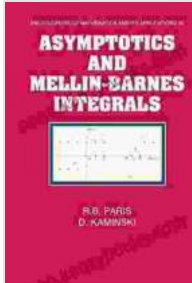


Asymptotics and Mellin-Barnes Integrals: Unraveling the Mysteries of Mathematical Asymptotics



Asymptotics and Mellin-Barnes integrals are powerful mathematical tools that play a crucial role in various fields of science and engineering. This

encyclopedia provides a comprehensive exploration of these concepts, offering a valuable resource for researchers, mathematicians, and professionals.



Asymptotics and Mellin-Barnes Integrals (Encyclopedia of Mathematics and its Applications Book 85) by R. B. Paris

★ ★ ★ ★ ☆ 4 out of 5

Language : English

File size : 6961 KB

Screen Reader: Supported

Print length : 440 pages



Asymptotic Analysis: Unveiling Hidden Behaviors

Asymptotics delve into the study of the behavior of functions as their arguments approach infinity or specific values. This analysis reveals the long-term trends and patterns in mathematical expressions, providing insights into their overall behavior. The encyclopedia delves into various asymptotic techniques, including the method of steepest descent, saddle point method, and the Laplace method.

Mellin-Barnes Integrals: A Versatile Tool for Complex Analysis

Mellin-Barnes integrals are a class of complex integrals that arise naturally in various mathematical contexts. They offer a powerful tool for solving differential equations, evaluating special functions, and performing asymptotic expansions. This encyclopedia provides a thorough treatment of the theory and applications of Mellin-Barnes integrals, including their evaluation techniques and asymptotic behavior.

Key Features of the Encyclopedia

- **Comprehensive Coverage:** Covers a wide range of topics related to asymptotic analysis and Mellin-Barnes integrals, from fundamental concepts to advanced applications.
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- **Examples and Applications:** Includes numerous examples and applications to illustrate the practical use of asymptotic and Mellin-Barnes techniques in various fields.
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- **Reference Material:** Serves as an invaluable reference for researchers, students, and professionals seeking to delve into these areas of mathematics.

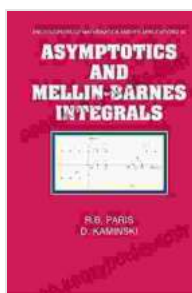
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Asymptotics and Mellin-Barnes Integrals: Encyclopedia of Mathematics and Its Applications is an essential resource for mathematicians, researchers, and professionals. Its comprehensive coverage, rigorous treatment, and practical applications make it an invaluable guide for exploring the intricate world of asymptotic analysis and Mellin-Barnes integrals. Whether you are a seasoned expert or a student seeking to delve into these fascinating areas of mathematics, this encyclopedia will empower you with the knowledge and insights necessary for success.



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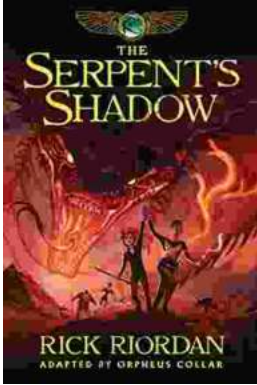
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