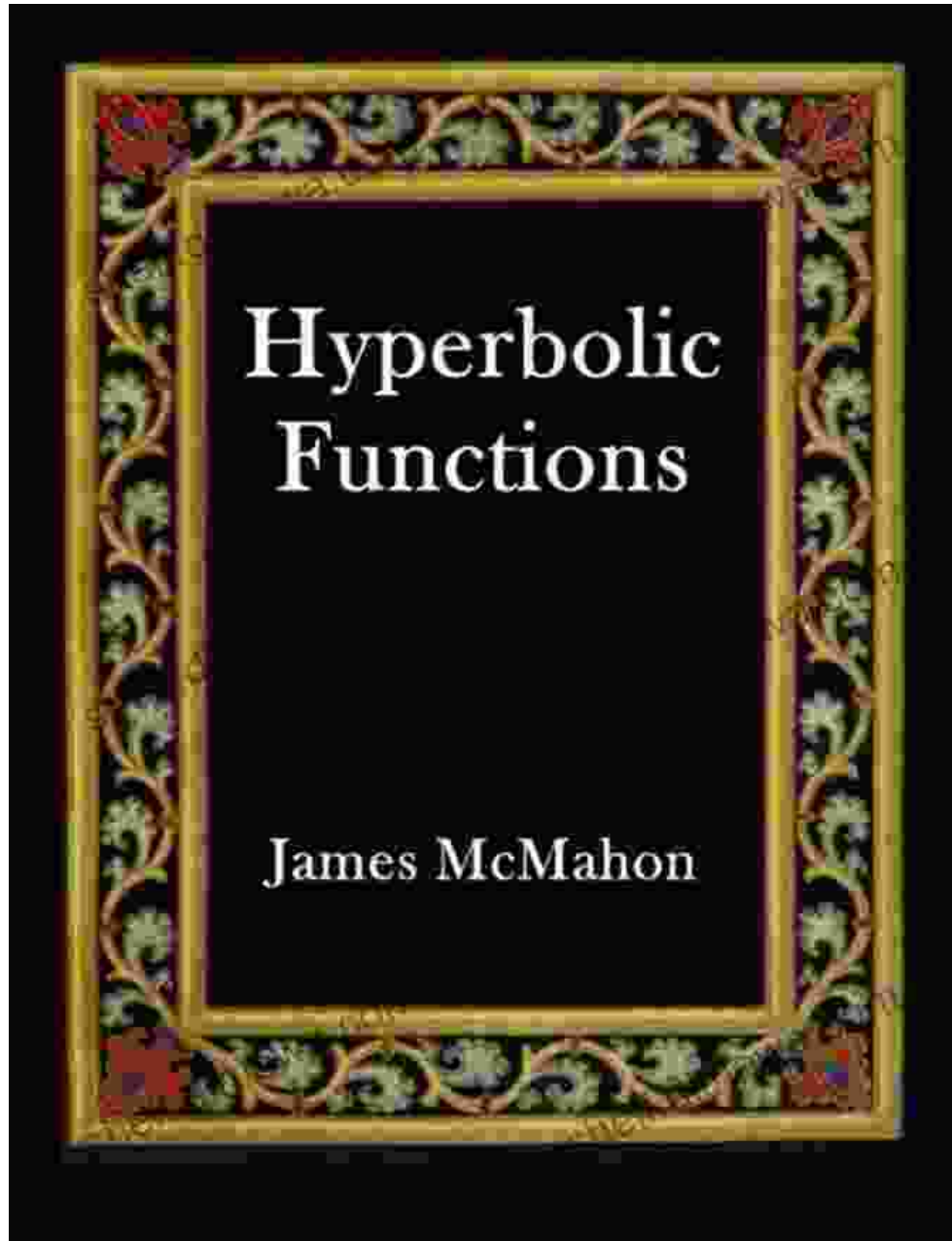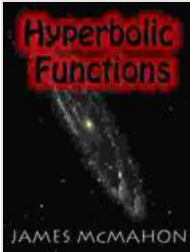# Hyperbolic Functions Illustrated: A Journey into the Heart of Mathematical Elegance

: The Allure of Hyperbolic Functions

Hyperbolic functions, the counterparts of trigonometric functions in the realm of complex numbers, offer a captivating world of mathematical

beauty and practical applications. In his seminal work, 'Hyperbolic Functions Illustrated,' James McMahon unveils the intricacies of these functions, providing an unparalleled visual and intuitive understanding.

Hyperbolic Functions (illustrated) by James McMahon

★★★★★ 5 out of 5

Language	: English
File size	: 6934 KB
Text-to-Speech	: Enabled
Enhanced typesetting	: Enabled
Print length	: 86 pages
Lending	: Enabled
Screen Reader	: Supported

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Chapter 1: The Birth of Hyperbolic Functions

McMahon embarks on a historical journey, tracing the origins of hyperbolic functions back to the 18th century. Explore the contributions of eminent mathematicians such as Vincenzo Riccati and Johann Heinrich Lambert, who laid the foundation for this fascinating mathematical concept.

Chapter 2: A Visual Symphony of Graphs

Delve into the visual tapestry of hyperbolic functions, where graphs intertwine to reveal their distinctive shapes and properties. From the familiar curves of the hyperbolic sine and cosine to the intriguing catenary (the shape of a hanging chain),McMahon's illustrations bring these functions to life.

Chapter 3: The Hyperbolic Trigonometric Table

Discover the practical value of the hyperbolic trigonometric table, a valuable resource for engineers, physicists, and other professionals. Learn how to use these tables to effortlessly solve complex equations involving hyperbolic functions.

Chapter 4: Applications in Physics and Engineering

Unveil the power of hyperbolic functions in diverse fields. Explore their applications in electrical engineering (transmission lines),fluid dynamics (flow of liquids),and thermodynamics (heat transfer). McMahon provides real-world examples that illustrate the practical significance of these functions.

Chapter 5: The Beauty of Hyperbolic Geometry

Venture into the realm of hyperbolic geometry, a non-Euclidean geometry where parallel lines can diverge. McMahon guides you through the concepts of hyperbolic distance, angles, and areas, revealing the fascinating properties of this alternative geometric framework.

Chapter 6: The Hyperbolic Trigonometric Functions in Action

Witness the versatility of hyperbolic functions in various mathematical applications. From solving differential equations to modeling real-world phenomena, McMahon demonstrates how these functions are indispensable tools in the hands of scientists and mathematicians.

Chapter 7: : The Enduring Legacy of Hyperbolic Functions

McMahon concludes his exploration with reflections on the enduring impact of hyperbolic functions. Discover their historical significance, their
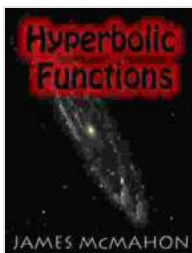
continuing relevance in modern applications, and their potential for future advancements.

Additional Features:

* Comprehensive glossary of terms * Interactive online quizzes and exercises * Annotated bibliography for further exploration

Call to Action

Unlock the power of hyperbolic functions today! Free Download your copy of 'Hyperbolic Functions Illustrated' by James McMahon and embark on a captivating journey into the heart of mathematical elegance. Experience the beauty and practicality of these enigmatic functions as you master their applications in diverse fields.

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