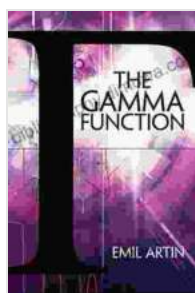


Unlock the Secrets of Special Functions with The Gamma Function Dover On Mathematics

The Gamma function is a fascinating and versatile mathematical function that finds applications in a wide range of fields, including probability, statistics, physics, and engineering. If you're looking to delve into the world of special functions, The Gamma Function Dover On Mathematics is an indispensable resource.

What is the Gamma Function?

The Gamma function is a generalization of the factorial function to complex numbers. It is defined as follows:



The Gamma Function (Dover Books on Mathematics)

by Ephraim Fischbach

★★★★☆ 4.8 out of 5

Language : English
File size : 11537 KB
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Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 52 pages
Lending : Enabled



$$\Gamma(z) = \int_0^{\infty} t^{z-1} e^{-t} dt$$

where z is a complex number.

The Gamma function has a number of interesting and useful properties. For example, it satisfies the following functional equation:

$$\Gamma(z+1) = z\Gamma(z)$$

This equation can be used to prove a number of important identities involving the Gamma function.

Applications of the Gamma Function

The Gamma function has a wide range of applications in science and engineering. For example, it is used in:

- **Probability and statistics:** The Gamma function is used in the definition of the gamma distribution, which is a widely used probability distribution.
- **Physics:** The Gamma function is used in the calculation of the energy levels of atoms and molecules.
- **Engineering:** The Gamma function is used in the design of antennas and other electrical circuits.

The Gamma Function Dover On Mathematics

The Gamma Function Dover On Mathematics is a comprehensive guide to the Gamma function. It provides a thorough exploration of the function's properties, its applications, and its history. The book is written in a clear and concise style, and it is suitable for readers with a variety of mathematical backgrounds.

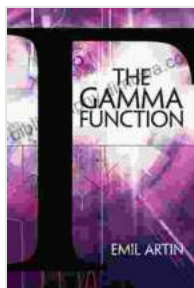
The book is divided into eight chapters. The first chapter provides an to the Gamma function. The second chapter discusses the properties of the Gamma function. The third chapter discusses the applications of the Gamma function in probability and statistics. The fourth chapter discusses the applications of the Gamma function in physics. The fifth chapter discusses the applications of the Gamma function in engineering. The sixth chapter discusses the history of the Gamma function. The seventh chapter provides a table of integrals involving the Gamma function. The eighth chapter provides a bibliography of works on the Gamma function.

The Gamma Function Dover On Mathematics is an essential resource for anyone who wants to learn about the Gamma function. It is a well-written and comprehensive guide that provides a thorough exploration of the function's properties, its applications, and its history.

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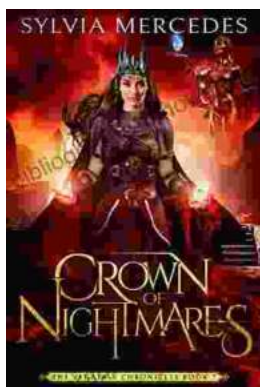
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