

The Mathematical Eclipse Of Pi Which Is Not 14159 Edition

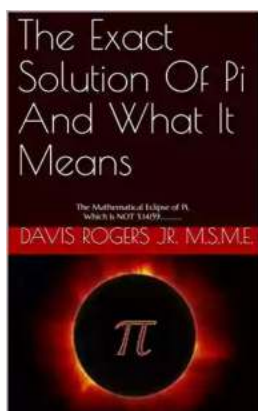


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When it comes to mathematical constants, none are as famous and intriguing as pi (π). This mysterious number has captivated mathematicians and enthusiasts alike for centuries. Most people know pi as being approximately equal to 3.14159, but there is so much more to this irrational number than meets the eye.

The exact value of pi cannot be expressed as a finite decimal or fraction. It goes on infinitely without repeating, making it a transcendental number. This unique property is what makes pi so fascinating to mathematicians, as it defies simple mathematical classification.



The Exact Solution Of Pi And What It Means: The Mathematical Eclipse of Pi, Which Is NOT 3.14159..... (Edition 1)

by Davis Rogers Jr. M.S.M.E.(Kindle Edition)

★★★★★ 5 out of 5

- Language : English
- File size : 3843 KB
- Text-to-Speech : Enabled
- Screen Reader : Supported
- Enhanced typesetting : Enabled
- Word Wise : Enabled
- Print length : 69 pages
- Lending : Enabled



The Origin of Pi

The concept of pi dates back thousands of years, with early approximations found in ancient Babylonian and Egyptian texts. However, it was the ancient Greeks who first began to study pi in more depth. The Greek mathematician Archimedes is credited with developing the first rigorous approach to calculating pi, using a method of exhaustion.

Archimedes used polygons to approximate the circumference of a circle and established that pi lies between $3 \frac{1}{7}$ and $3 \frac{10}{71}$. This was a groundbreaking

achievement in mathematics and laid the foundation for further exploration of pi's properties.

Calculating Pi through History

Over the years, mathematicians from various cultures have tried to calculate pi with increasing precision. Some notable contributions include:

- Chinese mathematicians in the 5th century calculated pi to seven decimal places.
- The Indian mathematician Madhava of Sangamagrama developed a series expansion for pi in the 14th century.
- In the 17th century, the German mathematician Ludolph van Ceulen calculated pi to 35 decimal places, which was a significant achievement at the time.
- In modern times, computer algorithms and supercomputers have pushed the known decimal places of pi into the trillions.

The Mathematical Significance of Pi

Pi is not just a random number; it has profound mathematical implications. It appears in many formulas and equations across various branches of mathematics, including geometry, trigonometry, and calculus. Some notable instances include:

- The area of a circle is equal to pi multiplied by the square of its radius: $A = \pi r^2$.
- The circumference of a circle is equal to pi multiplied by its diameter: $C = 2\pi r$.

- The sum of an infinite series involving alternating signs, called the Leibniz formula, evaluates to $\pi/4$.
- The Gaussian integral, which arises in probability theory and complex analysis, involves the square root of π .

Unsolved Mysteries Involving Pi

Despite centuries of study, numerous aspects of π remain unexplained or unsolved. Some intriguing questions related to π include:

- Does π contain all possible sequences of digits?
- Is π a normal number, meaning every digit appears equally often in its decimal representation?
- Are there any repeating patterns within π 's digits?

These mysteries continue to puzzle mathematicians, and ongoing research aims to shed light on these unanswered questions. Advances in computational power and mathematical techniques provide hope that one day we may uncover the secrets hidden within π .

Pi and Popular Culture

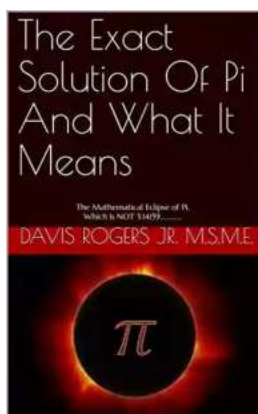
π 's transcendence beyond the realm of mathematics has made it a popular subject in various forms of culture. It has inspired books, movies, songs, and even a dedicated celebration. Every year, on March 14th (3/14), Pi Day is celebrated worldwide by enthusiasts who engage in π -related activities and indulge in circles and pies.

One of the most famous representations of π in popular culture is the movie "Life of Pi," based on the novel by Yann Martel. It explores deep philosophical

questions and the beauty of the unknown, much like the elusive mathematical constant itself.

The mathematical eclipse of pi is a never-ending journey that unearths new insights and questions as the decimal places of pi are calculated with ever-increasing accuracy. From its ancient origins to modern-day supercomputers, pi has stood the test of time and continues to captivate the minds of mathematicians and non-mathematicians alike.

So, the next time you take a slice of pie or marvel at the beauty of a perfect circle, remember the extraordinary journey encapsulated within that one tiny symbol - π .



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Up until now, being October 2018, Pi has been an approximated irrational number. The ancient Babylonians calculated the area of a circle by taking 3 times the square of its radius, which gave a value of $\pi = 3$. One Babylonian tablet (ca. 1900–1680 BC) indicates a value of 3.125 for pi, which is a closer approximation.

However, the Exact solution has never been achieved by mathematicians, scientist or computers until now. We will go step by step into the solution with the geometry of a buckyball and python code provided, to show and prove the exact solution of Pi using the geometry of the Buckyball. This geometric shape is the result of the C60 molecule. It is the same shape as a soccer ball used in field games played in America being made up of Hexagons and Pentagons. The author attempts to show the formula used to calculate the circumference for the Sphere instead of the circle and the surface area of a sphere. Pi is revealed with absolute precision. Hope you share this overlooked approach with all of the educational systems and scholars. Please email me at solidbuildersinc@hotmail.com or text/call at 757-952-6380 if you find a question with this discovery and I will reply with my humble opinion and support for perfection.



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