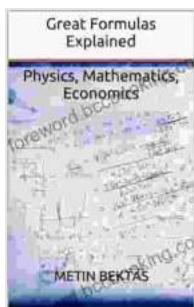


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Newton's Laws of Motion

1st Law



A body in motion remains in motion or a body at rest remains at rest unless acted upon by a force.

2nd Law



Force equals mass times acceleration: $F = m \cdot a$

3rd Law



For every action, there is an equal and opposite reaction.

Dive into the enigmatic world of quantum mechanics, where Schrödinger's equation provides a glimpse into the probabilistic nature of the subatomic realm. Explore the mysteries of electromagnetism with Maxwell's equations, explaining the interactions between electric and magnetic fields.

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MORE THAN JUST A SEQUENCE OF NUMBERS

FIBONACCI SEQUENCE

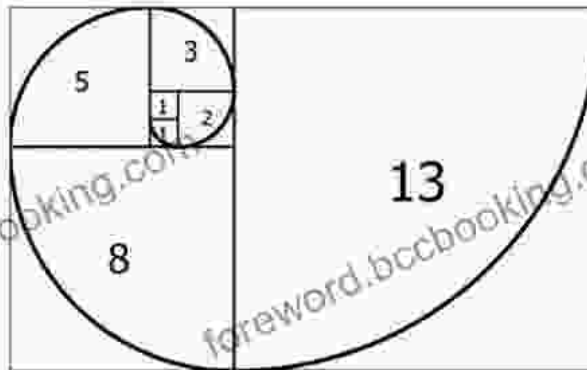
- $F_n = F_{n-1} + F_{n-2}$.
- Each number is the sum of the two preceding ones, starting from 0 and 1.
- Is ubiquitous; the tree branches, cauliflower and the curves of the human brain, etc. It's a phenomenon surrounding us everywhere.

GOLDEN RATIO

- Golden mean or golden section.
- Two quantities are in the golden ratio if their ratio is the same as the ratio of their sum to the larger of the two quantities.
- Any two successive Fibonacci Numbers have ratio very close to the Golden Ratio ϕ which is approximately 1,618034...

WEBER'S LAW

- The difference we can identify between objects is given by a percentage.
- For example, if 60% difference can be distinguished in an effort between two estimates, we can distinguish that same percentage difference between other estimates and that is corresponding with the Fibonacci Sequence.
- Fibonacci values work well because they increase by about the same portion each time.



ACRONYM
TAM

Discover the elegance of the Pythagorean theorem, a cornerstone of geometry. Trace the intricate patterns of the Fibonacci sequence, a testament to the hidden Free Download in nature. Unravel the mysteries of calculus, a powerful tool for understanding change and motion.

Economics: The Symphony of Markets

In the dynamic field of economics, formulas play a crucial role in modeling the complex interactions within markets and societies. From Adam Smith's invisible hand to the Black-Scholes model for option pricing, each formula captures a facet of economic behavior.

price elasticity of demand

$$\epsilon = \frac{\% \Delta Q}{\% \Delta P} = - \frac{\Delta Q / Q}{\Delta P / P} = - \frac{\Delta Q}{\Delta P} \frac{P}{Q}$$

Explore the interplay of supply and demand with the fundamental equation for market equilibrium. Analyze the dynamics of economic growth with the Solow model. Delve into the intricacies of game theory, revealing the strategic interactions between rational agents.

A Tapestry of Knowledge

"Great Formulas Explained: Physics, Mathematics, Economics" is not merely a collection of abstract equations. It is a tapestry of knowledge, weaving together the threads of science and revealing the interconnectedness of our universe.

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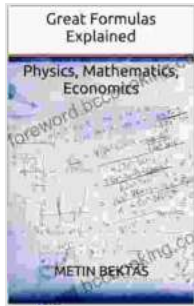
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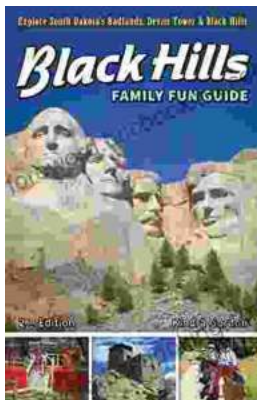
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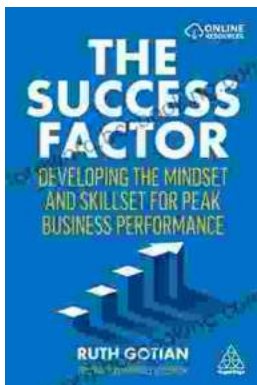


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