# Only Experiments Can Take Us Further: A Look Behind the Hype



EM Drive - Let's Wait For The Data :): Only Experiments
Can Take Us Further - Take a Look Behind the Hype

by Robert Walker

★★★★ 5 out of 5

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Experiments are the cornerstone of scientific progress. They allow us to test our hypotheses and theories, and to learn about the world around us. However, experiments can also be time-consuming and expensive, and they can sometimes be difficult to conduct. In recent years, there has been a growing trend towards using computational experiments to complement or even replace traditional physical experiments. This trend is being driven by advances in computing power and the development of new software tools.

#### The Benefits of Computational Experiments

Computational experiments offer several advantages over traditional physical experiments. First, they are much faster and cheaper to conduct. This is because computational experiments can be run on a computer,

rather than in a laboratory. This eliminates the need for expensive equipment and materials, and it also reduces the time required to conduct the experiment.

Second, computational experiments can be more easily controlled than physical experiments. This is because computational experiments can be run under controlled conditions, which eliminates the effects of external factors such as temperature and humidity. This makes it possible to obtain more accurate and reproducible results.

Third, computational experiments can be used to explore a wider range of conditions than physical experiments. This is because computational experiments are not limited by the physical constraints of the laboratory. This makes it possible to explore extreme conditions that would be impossible to create in a physical experiment.

#### The Challenges of Computational Experiments

Despite their advantages, computational experiments also face some challenges. First, computational experiments can be complex and difficult to design. This is because computational experiments require a deep understanding of the underlying physics and mathematics. Second, computational experiments can be computationally expensive. This is because computational experiments can require a lot of computing power, which can be expensive to purchase or rent.

Third, computational experiments can be difficult to validate. This is because it can be difficult to determine whether the results of a computational experiment are accurate. This is especially true for complex experiments that involve multiple factors.

#### The Future of Computational Experiments

Despite the challenges, computational experiments are becoming increasingly important in scientific research. This is because computational experiments offer several advantages over traditional physical experiments, and they are becoming more powerful and affordable all the time. In the future, computational experiments are likely to play an even greater role in scientific progress.

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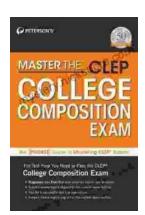


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