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Theoretical physics is physics that employs mathematical models and abstractions rather than experimental processes. Theoretical physics attempts to understand the natural world by making a model of reality, used for rationalizing, explaining, and predicting physical phenomena in what are called "physical theories." There are three types of theories in physics: mainstream theories, proposed ...

### **Category: Theoretical physics - Wikipedia**

This note provides an application of mathematical methods to problems in theoretical physics. Topics covered includes: A variety of techniques employing calculus, Introduction to complex numbers, matrices, vector calculus, Fourier series, and differential equations.

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Theoretical physics is a branch of physics that employs mathematical models and abstractions of physical objects and systems to rationalize, explain and predict natural phenomena. This is in contrast to experimental physics, which uses experimental tools to probe these phenomena.. The advancement of science generally depends on the interplay between experimental studies and theory.

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