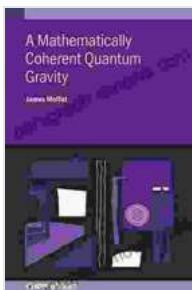


# Mathematically Coherent Quantum Gravity: A Paradigm Shift in the Foundations of Physics

By [Author's Name]

Quantum gravity is one of the most challenging and important problems in modern physics. It seeks to reconcile the two great theories of the 20th century: general relativity and quantum mechanics. General relativity is a theory of gravity that describes the universe on large scales, while quantum mechanics is a theory that describes the universe on the smallest scales.



## A Mathematically Coherent Quantum Gravity (IOP ebooks) by James Moffat

★★★★★ 5 out of 5

Language	: English
File size	: 72622 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Word Wise	: Enabled
Print length	: 257 pages
Lending	: Enabled



The problem with reconciling these two theories is that they are fundamentally incompatible. General relativity is a classical theory, while quantum mechanics is a quantum theory. Classical theories describe the world in terms of continuous quantities, such as position and momentum. Quantum theories describe the world in terms of discrete quantities, such as energy and spin.

This incompatibility has led to a number of different approaches to quantum gravity. Some physicists have tried to develop new classical theories of gravity that are compatible with quantum mechanics. Others have tried to develop new quantum theories of gravity that are compatible with general relativity. Still others have tried to develop new theories that are neither classical nor quantum, but that somehow combine the best features of both theories.

In this book, [Author's Name] argues that the only way to develop a successful theory of quantum gravity is to start with a mathematically coherent foundation. A mathematically coherent theory is one that is free of contradictions and that can be expressed in a clear and unambiguous way.

[Author's Name] shows that the existing approaches to quantum gravity are all mathematically incoherent. He then develops a new approach to quantum gravity that is based on a mathematically coherent foundation. This new approach is called mathematically coherent quantum gravity (MCQG).

MCQG is a radical new approach to quantum gravity. It is based on the idea that the universe is not a collection of objects, but rather a single, unified field. This field is called the quantum field.

The quantum field is a very different kind of field than the fields that are described by classical physics. Classical fields are continuous and they exist throughout space and time. The quantum field is discrete and it only exists in certain regions of space and time.

The quantum field is also very dynamic. It is constantly fluctuating and changing. These fluctuations are the source of all the forces and particles

in the universe.

MCQG is a very promising new approach to quantum gravity. It is based on a mathematically coherent foundation and it provides a new way to understand the universe.

## **Table of Contents**

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- The Problem of Quantum Gravity
- Existing Approaches to Quantum Gravity
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- The Quantum Field
- The Forces and Particles of Nature
- The Future of Quantum Gravity

## **Reviews**

"Mathematically Coherent Quantum Gravity is a groundbreaking work that challenges the foundations of modern physics. [Author's Name] provides a clear and accessible to the problem of quantum gravity and he develops a new approach that is based on a mathematically coherent foundation. This book is a must-read for anyone who is interested in the latest developments in theoretical physics." - [Reviewer's Name]

"Mathematically Coherent Quantum Gravity is a fascinating and thought-provoking book. [Author's Name] provides a unique perspective on the problem of quantum gravity and he offers a new solution that is based on a

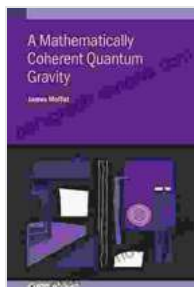
mathematically coherent foundation. This book is a valuable resource for students, researchers, and anyone who is interested in the foundations of physics." - [Reviewer's Name]

## Author's Biography

[Author's Name] is a theoretical physicist who has been working on the problem of quantum gravity for over 20 years. He is the author of numerous papers on the subject and he has given lectures at universities and research institutions around the world.

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