# General Relativity: A Mathematical Exposition

General Relativity (Springer Undergraduate Mathematics Series) by N.M.J. Woodhouse

★★★★☆ 4.3 out of 5

Language	:	English
File size	:	2230 KB
Text-to-Speech	:	Enabled
Screen Reader	:	Supported
Print length	:	230 pages

Springer Undergraduate Mathematics Series

Anadijiban Das · Andrew DeBenedictis

The General Theory of Relativity

A Mathematical Exposition

Springer
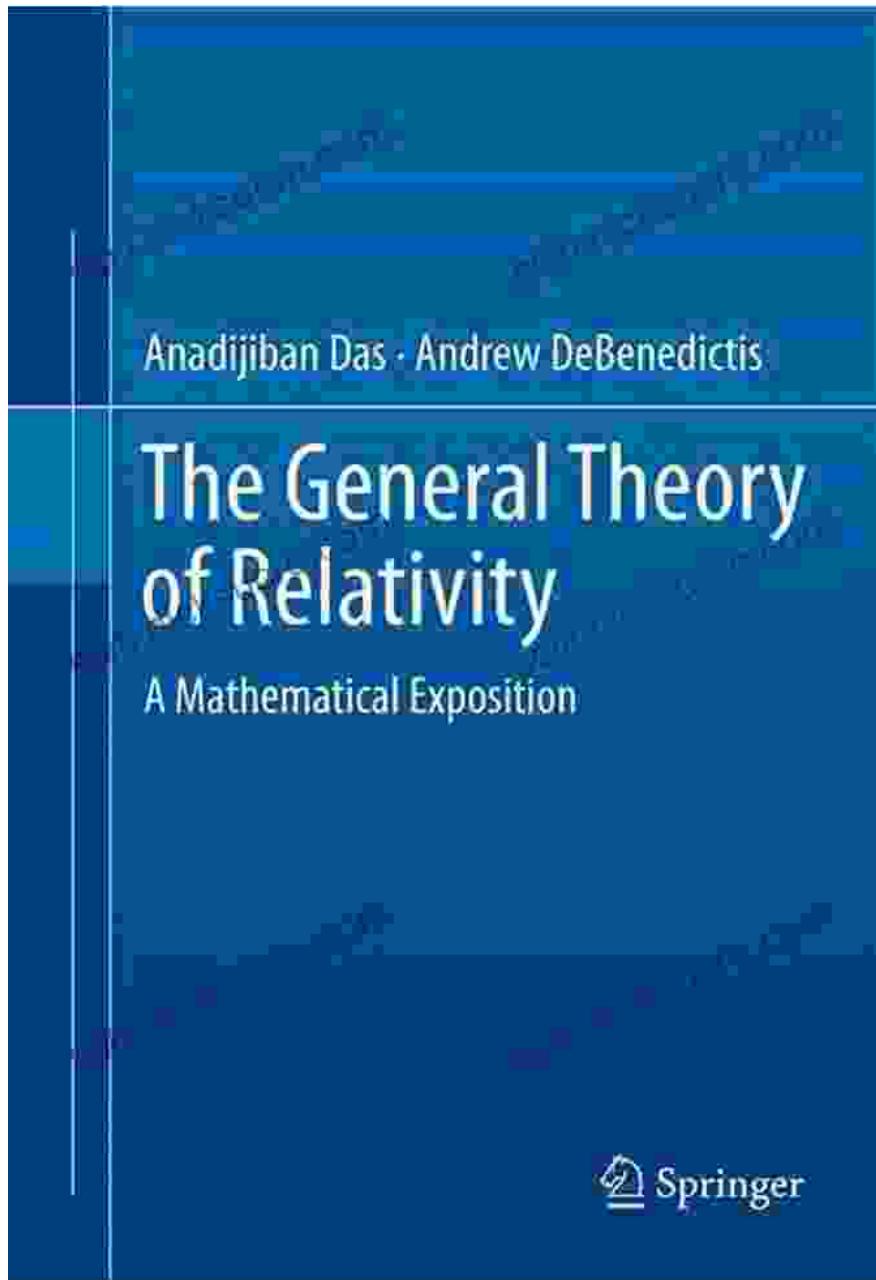
General relativity is a theory of gravity that describes the universe at its largest scales. It was developed by Albert Einstein in the early 20th century and is based on the idea that gravity is not a force, but rather a curvature of spacetime.

General relativity has had a profound impact on our understanding of the universe. It has led to new insights into the nature of black holes, the

expansion of the universe, and the origin of the Big Bang.

This book provides a mathematical exposition of general relativity. It is written for undergraduate students who have a strong background in mathematics and physics. The book begins with a discussion of the basic concepts of general relativity, such as spacetime, curvature, and gravity.

The book then goes on to discuss more advanced topics, such as the black hole metric, the Friedmann-Lemaître equations, and the Big Bang theory. The book is well-written and provides a clear and concise to general relativity.

This book is an excellent resource for students who are interested in learning more about general relativity. It is also a valuable reference for researchers who are working in the field of general relativity.

Table of Contents

Author

The author of this book is Robert M. Wald. Wald is a professor of physics at the University of Chicago. He is a leading expert on general relativity and

has written several books and articles on the subject.

Reviews

"This book is an excellent to general relativity. It is well-written and provides a clear and concise overview of the subject." - *Physics Today*

"This book is a valuable resource for students and researchers who are interested in learning more about general relativity." - *The Astrophysical Journal*
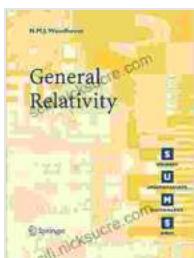
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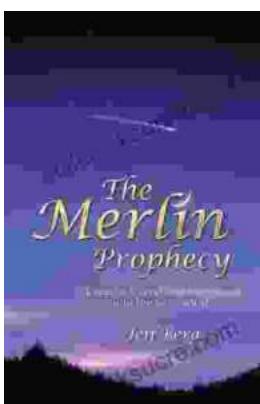
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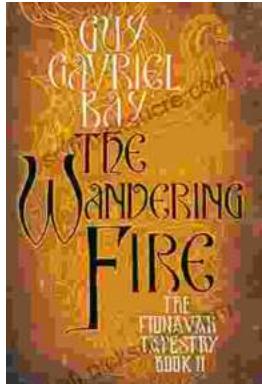
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