

"In these lectures, everything you've ever heard about Feynman's wit and genius comes through." —John Horgan, author of *The End of Science*



# RICHARD P. FEYNMAN

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## Six Not-So-Easy Pieces

Einstein's Relativity, Symmetry,  
and Space-Time

# Six Not So Easy Pieces Einsteins Relativity Symmetry And Space Time

**Andrew Crome, James F. McGrath**



## **Six Not So Easy Pieces Einsteins Relativity Symmetry And Space Time:**

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**Six Not-so-easy Pieces** Richard Phillips Feynman, 1998 *Six Not-So-Easy Pieces* Richard P. Feynman, 2005-04-06 No twentieth century American scientist is better known to a wider spectrum of people than Richard P Feynman 1918 1988 physicist teacher author and cultural icon His autobiographies and biographies have been read and enjoyed by millions of readers around the world while his wit and eccentricities have made him the subject of TV specials and even a theatrical film The spectacular reception of the book and audio versions of Feynman's *Six Easy Pieces* published in 1995 resulted in a worldwide clamor for More Feynman More Feynman The outcome is these six additional lectures drawn from the celebrated three volume Lectures on Physics Though slightly more challenging than the first six these lectures are more focused delving into the most revolutionary discovery in twentieth century physics Einstein's Theory of Relativity No single breakthrough in twentieth century physics with the possible exception of quantum mechanics changed our view of the world more than that of Einstein's discovery of relativity The notions that the flow of time is not a constant that the mass of an object depends on its velocity and that the speed of light is a constant no matter what the motion of the observer at first seemed shocking to scientists and laymen alike But as Feynman shows so clearly and so entertainingly in the lectures chosen for this volume these crazy notions are no mere dry principles of physics but are things of beauty and elegance No one not even Einstein himself explained these difficult anti intuitive concepts more clearly or with more verve and gusto than Richard Feynman

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B. Leighton, Matthew Linzee Sands, 1998 Drawn from Feynman's introductory course of lectures on physics this title delves into the revolutionary discovery of twentieth century physics Einstein's theory of relativity Six Not-So-Easy Pieces

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**Laws of Nature** Peter Mittelstaedt, Paul A. Weingartner, 2005-11-04 This book is not a textbook to become acquainted with the laws of nature An elementary knowledge about laws of nature in particular the laws of physics is presupposed The book is rather intended to provide a clarification of concepts and properties of the laws of nature The authors would like to emphasise that this book has been developed created as a real teamwork Although the chapters and in some cases parts of the chapters were originally written by one of the two authors all of them were discussed thoroughly and in detail and have been revised and complemented afterwards Even if both authors were in agreement on most of the foundational issues discussed in the book they did not feel it necessary to balance every viewpoint Thus some individual and personal difference or emphasis will still be recognisable from the chapters written by the different authors In this sense the authors feel specially responsible for the chapters as follows Mittelstaedt for Chaps 4 9 3 10 11 2 12 13 and Weingartner for Chaps 1 2 3 5 7 8 2 9 2 9 4 The remaining parts are joint sections Most of the chapters are formulated as questions and they begin with arguments pro and contra Then a detailed answer is proposed which contains a systematic discussion of the question This is the respective main part of the chapter It sometimes begins with a survey of the problem by giving some important answers to it from history of Chaps 6 and 9

**Einstein** Walter Isaacson, 2008-05-13 From Isaacson the bestselling author of Benjamin Franklin comes the first full biography of Albert Einstein since all his papers have become available a fully realized portrait of a premier icon of his era

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holes can blaze like cosmic beacons across intergalactic space and that ancient radio waves might herald the ignition of the very first stars Have you ever thought about what light really is Five Photons explains what we know about the universe through five different journeys of light across space and time They are tales of quantum physics and general relativity stars and black holes dark matter and dark energy Let yourself be swept away on a journey of discovery towards a deeper understanding of the cosmos

**A Mathematical Approach to Special Relativity** Ahmad Shariati, 2022-09-09 A

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