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RICHARD P. FEYNMAN

Six Not-So-Easy Pieces

Einstein's Relativity, Symmetry,
and Space-Time

Six Not So Easy Pieces Einsteins Relativity Symmetry And Space Time

**Richard P. Feynman, Robert B.
Leighton, Matthew Sands**



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Six Not-So-Easy Pieces Richard P. Feynman, Robert B. Leighton, Matthew Sands, 2011-03-22 Learn about Einstein's theory of relativity from a physics Nobel laureate and one of the greatest minds of the twentieth century New York Review of Books in six memorable lessons It was Richard Feynman's outrageous and scintillating method of teaching that earned him legendary status among students and professors of physics From 1961 to 1963 Feynman delivered a series of lectures at the California Institute of Technology that revolutionized the teaching of physics In *Six Not So Easy Pieces* taken from these famous Lectures on Physics Feynman delves into one of the most revolutionary discoveries in twentieth century physics Einstein's theory of relativity The idea 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 these tricky ideas are not merely dry principles of physics but 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 Feynman Filled with wonderful examples and clever illustrations *Six Not So Easy Pieces* is the ideal introduction to the fundamentals of physics by one of the most admired and accessible physicists of all time There is no better explanation for the scientifically literate layman Washington Post Book World

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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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

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