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The Feynman Lectures on Physics by  
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Wheeler and Feynman attended two  
international conferences on gravity---  
and Feynman was famously totally  
disgusted by the quality of the talks he  
heard at the conferences. In the  
1962-3 academic year at Caltech,  
Feynman taught an advanced

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graduate course, basically summarizing the work he had done on quantizing gravity up to that date.

The Feynman Lectures on Gravitation are based on notes prepared during a course on gravitational physics that Richard Feynman taught at Caltech during the 1962-63 academic year. For several years prior to these lectures, Feynman thought long and hard about the fundamental problems in gravitational physics, yet he published very little. These lectures represent a useful record of his viewpoints and some of his insights into gravity and its application to cosmology, superstars, wormholes, and gravitational waves at that particular time. The lectures also contain a number of fascinating

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digressions and asides on the foundations of physics and other issues. Characteristically, Feynman took an untraditional non-geometric approach to gravitation and general relativity based on the underlying quantum aspects of gravity. Hence, these lectures contain a unique pedagogical account of the development of Einstein's general theory of relativity as the inevitable result of the demand for a self-consistent theory of a massless spin-2 field (the graviton) coupled to the energy-momentum tensor of matter. This approach also demonstrates the intimate and fundamental connection between gauge invariance and the principle of equivalence.

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Covering all aspects of gravitation in a contemporary style, this advanced textbook is ideal for graduate students and researchers in all areas of theoretical physics. The 'Foundation' section develops the formalism in six chapters, and uses it in the next four chapters to discuss four key applications - spherical spacetimes, black holes, gravitational waves and

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cosmology. The six chapters in the 'Frontier' section describe cosmological perturbation theory, quantum fields in curved spacetime, and the Hamiltonian structure of general relativity, among several other advanced topics, some of which are covered in-depth for the first time in a textbook. The modular structure of the book allows different sections to be combined to suit a variety of courses. Over 200 exercises are included to test and develop the reader's understanding. There are also over 30 projects, which help readers make the transition from the book to their own original research.

With contributions by leading theoreticians, this book presents the discoveries of hitherto hidden connections between seemingly

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The topics range from cosmology and astrophysics to nuclear-, particle- and heavy-ion science. A current example concerns the sensitivity of gravitational wave spectra to the phase structure of dense nuclear and quark matter in binary neutron star collisions. The contributions by Hanauske and Stoecker as well as Banik and Bandyopadhyay relate the consequent insights to hot dense nuclear matter created in supernova explosions and in high-energy heavy-ion collisions. Studies of the equation of state for neutron stars are also presented, as are those for nuclear matter in high-energy heavy-ion collisions. Other reviews focus on QCD-thermodynamics, charmed mesons in the quark-gluon plasma, nuclear

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theory, extensions to the standard general theory of relativity, new experimental developments in heavy ion collisions and renewable energy networks. The book will appeal to advanced students and researchers seeking a broad view of current challenges in theoretical physics and their interconnections.

Based upon a course taught by Feynman on the principles of gravitation at Cal. Tech, this series of lectures discusses gravitation in all its aspects. The author's approach is very direct, a trademark of his work and lecture style.

An ideal introduction to Einstein's general theory of relativity This unique

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textbook provides an accessible introduction to Einstein's general theory of relativity, a subject of breathtaking beauty and supreme importance in physics. With his trademark blend of wit and incisiveness, A. Zee guides readers from the fundamentals of Newtonian mechanics to the most exciting frontiers of research today, including de Sitter and anti-de Sitter spacetimes, Kaluza-Klein theory, and brane worlds. Unlike other books on Einstein gravity, this book emphasizes the action principle and group theory as guides in constructing physical theories. Zee treats various topics in a spiral style that is easy on beginners, and includes anecdotes from the history of physics that will appeal to students and experts alike. He takes a friendly approach to the required mathematics,

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yet does not shy away from more advanced mathematical topics such as differential forms. The extensive discussion of black holes includes rotating and extremal black holes and Hawking radiation. The ideal textbook for undergraduate and graduate students, Einstein Gravity in a Nutshell also provides an essential resource for professional physicists and is accessible to anyone familiar with classical mechanics and electromagnetism. It features numerous exercises as well as detailed appendices covering a multitude of topics not readily found elsewhere. Provides an accessible introduction to Einstein's general theory of relativity Guides readers from Newtonian mechanics to the frontiers of modern research Emphasizes symmetry and the Einstein-Hilbert

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Covers topics not found in standard textbooks on Einstein gravity  
Includes interesting historical asides  
Features numerous exercises and detailed appendices  
Ideal for students, physicists, and scientifically minded lay readers  
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Covering the theory of computation, information and communications, the physical aspects of computation, and the physical limits of computers, this text is based on the notes taken by one of its editors, Tony Hey, on a lecture course on computation given b

In this book, leading theorists present new contributions and reviews addressing longstanding challenges and ongoing progress in spacetime physics. In the anniversary year of

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Einstein's General Theory of Relativity, developed 100 years ago, this collection reflects the subsequent and continuing fruitful development of spacetime theories. The volume is published in honour of Carl Brans on the occasion of his 80th birthday. Carl H. Brans, who also contributes personally, is a creative and independent researcher and one of the founders of the scalar-tensor theory, also known as Jordan-Brans-Dicke theory. In the present book, much space is devoted to scalar-tensor theories. Since the beginning of the 1990s, Brans has worked on new models of spacetime, collectively known as exotic smoothness, a field largely established by him. In this Festschrift, one finds an outstanding and unique collection of articles about exotic smoothness. Also featured are

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Bell's inequality and Mach's principle. Personal memories and historical aspects round off the collection.

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