



# Gravitational Waves

**Richard Gaughan**



## **Gravitational Waves:**

*Overview Of Gravitational Waves, An: Theory, Sources And Detection* Gerard Auger, Eric Plagnol, 2017-02-15 This book describes detection techniques used to search for and analyze gravitational waves GW It covers the whole domain of GW science starting from the theory and ending with the experimental techniques both present and future used to detect them The theoretical sections of the book address the theory of general relativity and of GW followed by the theory of GW detection The various sources of GW are described as well as the methods used to analyse them and to extract their physical parameters It includes an analysis of the consequences of GW observations in terms of astrophysics as well as a description of the different detectors that exist and that are planned for the future With the recent announcement of GW detection and the first results from LISA Pathfinder this book will allow non specialists to understand the present status of the field and the future of gravitational wave science     Gravitational Waves Ajit Kembhavi, Pushpa Khare, 2020-08-06 Gravitational waves were first predicted by Albert Einstein in 1916 a year after the development of his new theory of gravitation known as the general theory of relativity This theory established gravitation as the curvature of space time produced by matter and energy To be discernible even to the most sensitive instruments on Earth the waves have to be produced by immensely massive objects like black holes and neutron stars which are rotating around each other or in the extreme situations which prevail in the very early ages of the Universe This book presents the story of the prediction of gravitational waves by Albert Einstein the early attempts to detect the waves the development of the LIGO detector the first detection in 2016 the subsequent detections and their implications All concepts are described in some detail without the use of any mathematics and advanced physics which are needed for a full understanding of the subject The book also contains description of electromagnetism Einstein's special theory and general theory of relativity white dwarfs neutron stars and black holes and other concepts which are needed for understanding gravitational waves and their effects Also described are the LIGO detectors and the cutting edge technology that goes into building them and the extremely accurate measurements that are needed to detect gravitational waves The book covers these ideas in a simple and lucid fashion which should be accessible to all interested readers The first detection of gravitational waves was given a lot of space in the print and electronic media So the curiosity of the non technical audience has been aroused about what gravitational waves really are and why they are so important This book seeks to answer such questions     **Gravity!** Pierre Binétruy, 2018-04-23 What force do the Big Bang the expansion of the Universe dark matter and dark energy black holes and gravitational waves all have in common This book uncovers gravity as a key to understanding these fascinating phenomena that have so captivated public interest in recent years Readers will discover the latest findings on how this familiar force in our everyday lives powers the most colossal changes in the Universe Written by the widely recognized French public scientist and leading astrophysicist Pierre Binétruy the book also explains the recent experimental confirmation of the existence of gravitational waves     Ripples in Spacetime Govert

Schilling,2017-07-31 A spacetime appetizer Relatively speaking Einstein on trial Wave talk and bar fights The lives of stars Clockwork precision Laser quest The path to perfection Creation stories Cold case Gotcha Black magic Nanoscience Follow up questions Space invaders Surf s up for Einstein wave astronomy     *Understanding Gravitational Waves* C. R. Kitchin,2021-09-23 The birth of a completely new branch of observational astronomy is a rare and exciting occurrence For a long time our theories about gravitational waves proposed by Albert Einstein and others more than a hundred years ago could never be fully proven since we lacked the proper technology to do it That all changed when on September 14 2015 instruments at the LIGO Observatory detected gravitational waves for the first time This book explores the nature of gravitational waves what they are where they come from why they are so significant and why nobody could prove they existed before now Written in plain language and interspersed with additional explanatory tutorials it will appeal to lay readers science enthusiasts physical science students amateur astronomers and to professional scientists and astronomers

**General Relativity and Gravitational Waves** Sanjeev Dhurandhar,Sanjit Mitra,2022-02-16 This book serves as a textbook for senior undergraduate students who are learning the subject of general relativity and gravitational waves for the first time Both authors have been teaching the course in various forms for a few decades and have designed the book as a one stop book at basic level including derivations and exercises A spectacular prediction of general relativity is gravitational waves Gravitational waves were first detected by the LIGO detectors in 2015 hundred years after their prediction Both authors are part of the LIGO Science Collaboration and were authors on the discovery paper Therefore a strong motivation for this book is to provide the essential concepts of general relativity theory and gravitational waves with their modern applications to students and to researchers who are new to the multi disciplinary field of gravitational wave astronomy One of the advanced topics covered in this book is the fundamentals of gravitational wave data analysis filling a gap in textbooks on general relativity The topic blends smoothly with other chapters in the book not only because of the common area of research but it uses similar differential geometric and algebraic tools that are used in general relativity     Gravitational Waves Brian Clegg,2018-02-08 On 14 September 2015 after 50 years of searching gravitational waves were detected for the first time and astronomy changed for ever Until then investigation of the universe had depended on electromagnetic radiation visible light radio X rays and the rest But gravitational waves ripples in the fabric of space and time are unrelenting passing through barriers that stop light dead At the two 4 kilometre long LIGO observatories in the US scientists developed incredibly sensitive detectors capable of spotting a movement 100 times smaller than the nucleus of an atom In 2015 they spotted the ripples produced by two black holes spiralling into each other setting spacetime quivering This was the first time black holes had ever been directly detected and it promises far more for the future of astronomy Brian Clegg presents a compelling story of human technical endeavour and a new powerful path to understand the workings of the universe

*Gravitational Waves* William Brown,AI,2025-03-04 Gravitational Waves explores the groundbreaking field of gravitational

wave astronomy revealing how detecting ripples in spacetime has revolutionized our understanding of the cosmos This new window into the universe allows scientists to directly observe phenomena previously hidden from telescopes such as black hole mergers and neutron star collisions These observations not only corroborate Einstein's theory of general relativity but also provide insights into the dynamics of compact objects offering a unique test of spacetime in extreme environments The book begins with the historical and scientific context offering an accessible overview of general relativity and the mathematics needed to understand it without complex equations It then delves into the major discoveries made by detectors like LIGO and Virgo focusing on black hole mergers and neutron star collisions and the evidence they provide The approach emphasizes conceptual clarity balancing scientific rigor with accessibility Progressing through theory detection methods and observational data the book culminates in a discussion of the cosmological implications of gravitational wave observations It provides practical applications of gravitational wave data showing how it can be used to constrain astrophysical models and test fundamental physics Ultimately Gravitational Waves provides an accurate assessment of current knowledge and future prospects in this rapidly evolving field

*Gravitational Waves* I. Ciufolini,V. Gorini,U. Moschella,P Fre,2001-01-29

Gravitational waves GWs are a hot topic and promise to play a central role in astrophysics cosmology and theoretical physics Technological developments have led us to the brink of their direct observation which could become a reality in the coming years The direct observation of GWs will open an entirely new field GW astronomy This is expected

**Physics of Gravitational Waves** Arun Kenath,Chandra Sivaram,2023-05-01 This book provides a concise introduction to the physics of gravitational waves It is aimed at graduate level students and PhD scholars Ever since the discovery of gravitational waves in 2016 gravitational wave astronomy has been adding to our understanding of the universe Gravitational waves have been detected in the past few years from several transient events such as merging stellar mass black holes binary neutron stars etc These waves have frequencies in a band ranging from a few hundred hertz to around a kilohertz to which LIGO type instruments are sensitive LISA will be sensitive to much lower range of frequencies from SMBH mergers Apart from these cataclysmic burst events there are innumerable sources of radiation which are continuously emitting gravitational waves of all frequencies These include a whole mass range of compact binary and isolated compact objects and close planetary stellar entities This book discusses the gravitational wave background produced in typical frequency ranges from such sources emitting over a Hubble time and the fluctuations in the  $h$  values measured in the usual devices Also discussed are the high frequency thermal background gravitational radiation from hot stellar interiors and newly formed compact objects The reader will also learn how gravitational waves provide a testing tool for various theories of gravity i.e general relativity and extended theories of gravity and will be the definitive test for general relativity

*Gravity's Shadow* Harry

Collins,2004-09-04 According to the theory of relativity we are constantly bathed in gravitational radiation When stars explode or collide a portion of their mass becomes energy that disturbs the very fabric of the space time continuum like

ripples in a pond But proving the existence of these waves has been difficult the cosmic shudders are so weak that only the most sensitive instruments can be expected to observe them directly Fifteen times during the last thirty years scientists have claimed to have detected gravitational waves but so far none of those claims have survived the scrutiny of the scientific community Gravity's Shadow chronicles the forty year effort to detect gravitational waves while exploring the meaning of scientific knowledge and the nature of expertise Gravitational wave detection involves recording the collisions explosions and trembling of stars and black holes by evaluating the smallest changes ever measured Because gravitational waves are so faint their detection will come not in an exuberant moment of discovery but through a chain of inference for forty years scientists have debated whether there is anything to detect and whether it has yet been detected Sociologist Harry Collins has been tracking the progress of this research since 1972 interviewing key scientists and delineating the social process of the science of gravitational waves Engagingly written and authoritatively comprehensive Gravity's Shadow explores the people institutions and government organizations involved in the detection of gravitational waves This sociological history will prove essential not only to sociologists and historians of science but to scientists themselves *Gravitational Waves: A New Window to the Universe* Rosalba Perna, Bruno Giacomazzo, 2021-07-02 Gravitational Waves Michele Maggiore, 2008 The two volumes of Gravitational Waves provide a comprehensive and detailed account of the physics of gravitational waves Volume 2 discusses what can be learned from gravitational waves in astrophysics and in cosmology by systematizing a large body of theoretical developments that have taken place over the last decades **Handbook of Gravitational Wave Astronomy** Cosimo Bambi, Stavros Katsanevas, Konstantinos D. Kokkotas, 2022-07-02 This handbook provides an updated comprehensive description of gravitational wave astronomy In the first part it reviews gravitational wave experiments from ground and space based laser interferometers to pulsar timing arrays and indirect detection from the cosmic microwave background In the second part it discusses a number of astrophysical and cosmological gravitational wave sources including black holes neutron stars possible more exotic objects and sources in the early Universe The third part of the book reviews the methods to calculate gravitational waveforms The fourth and last part of the book covers techniques employed in gravitational wave astronomy data analysis This book represents both a valuable resource for graduate students and an important reference for researchers in gravitational wave astronomy *Gravitational Waves* Michele Maggiore, 2007-10-05 The aim of this book is to become a major reference text for gravitational wave physics covering in detail both the experimental and the theoretical aspects It is the only existing book on gravitational waves to date and it will likely remain unique for its broadness and scope It brings the reader to the forefront of present day research both theoretical and experimental assuming no previous knowledge of gravitational wave physics Part I of Volume 1 is devoted to the theory of gravitational waves Here we have re derived in a coherent way most of the results that we present clarifying or streamlining existing derivations Part II of Volume 1 is devoted to a description of experimental gravitational wave physics We discuss in

great detail existing and planned experiments as well as data analysis techniques      *Gravitational Waves Explained* Richard Gaughan, 2018-12-15 In September of 2015 the scientific world was buzzing gravitational waves had been detected It was a dramatic and conclusive demonstration of Einstein's theory of general relativity the most complex and far reaching theory in the history of physics Through detailed diagrams relatable analogies and informative sidebars this text cuts through the complexity and sophistication providing an accessible introduction to the physics of waves the implications of general relativity and the ways in which gravitational waves can bring new understanding of the universe around us      *Traveling at the Speed of Thought* Daniel Kennefick, 2007-04-15 Since Einstein first described them nearly a century ago gravitational waves have been the subject of more sustained controversy than perhaps any other phenomenon in physics These as yet undetected fluctuations in the shape of space time were first predicted by Einstein's general theory of relativity but only now at the dawn of the twenty first century are we on the brink of finally observing them Daniel Kennefick's landmark book takes readers through the theoretical controversies and thorny debates that raged around the subject of gravitational waves after the publication of Einstein's theory The previously untold story of how we arrived at a settled theory of gravitational waves includes a stellar cast from the front ranks of twentieth century physics including Richard Feynman Hermann Bondi John Wheeler Kip Thorne and Einstein himself who on two occasions avowed that gravitational waves do not exist changing his mind both times The book derives its title from a famously skeptical comment made by Arthur Stanley Eddington in 1922 namely that gravitational waves propagate at the speed of thought Kennefick uses the title metaphorically to contrast the individual brilliance of each of the physicists grappling with gravitational wave theory against the frustratingly slow progression of the field as a whole Accessibly written and impeccably researched this book sheds new light on the trials and conflicts that have led to the extraordinary position in which we find ourselves today poised to bring the story of gravitational waves full circle by directly confirming their existence for the very first time      **Gravitational Waves** David M. Feldbaum, 2020-08-04 Gravitational wave GW research is one of the most rapidly developing subfields in experimental physics today The theoretical underpinnings of this endeavor trace to the discussions of the speed of gravity in the 18th century but the modern understanding of this phenomena was not realized until the middle of the 20th century The minuteness of the gravitational force means that the effects associated with GWs are vanishingly small To detect the GWs produced by the most enormously energetic sources in the universe humans had to build devices capable of measuring the tiniest amounts of forces and displacements This book delves into the exploration of the basics of the theory of GW their generation propagation and detection by various methods It does not delve into the depths of Einstein's General Relativity but instead discusses successively closer approximations to the full theory As a result the book should be accessible to an ambitious undergraduate student majoring in physics or engineering It could be read concurrently with standard junior level textbooks in classical mechanics and electromagnetic theory      **Cosmology, Gravitational Waves And Particles -**

**Proceedings Of The Conference** Harald Fritzsch, 2017-11-24 In February 2016 physicists announced the breakthrough discovery of the gravitational waves which were predicted by Albert Einstein in his century old theory of General Relativity. These gravitational waves were emitted as a result of the collision of two massive black holes that happened about 1.3 billion years ago. They were discovered at the Laser Interferometer Gravitational Wave Observatory LIGO in the United States and thus marked a new milestone for physics. However, it remains unclear to physicists how the gravitational interaction can be included in the Standard Theory of particle physics which describes the electroweak and the strong interactions in our universe. In this volume are the lectures given by the speakers at the conference on cosmology and particle physics. The discussed topics range from gravitational waves to cosmology, dark matter, dark energy, and particle physics beyond the Standard Theory.

**Gravitational Waves from a Quantum Field Theory Perspective** Subhendra Mohanty, 2023-05-31 This book treats the subject of gravitational waves (GWs) production in binary stars or black holes and in the early universe using tools of quantum field theory which are familiar to graduate students and researchers in particle physics. A special focus is given to the generation of templates of gravitational wave signals from Feynman diagram calculations of transition amplitudes which interests active researchers in GWs. The book presents field theory concepts like supersymmetry realized in spinning binaries and soft graviton theorems that can have practical applications in novel GW signals like the memory effect. The book also aims at specialists in both GWs and particle physics addressing cosmological models of phase transition and inflation that can be tested in observations at terrestrial and space based interferometers, pulsar timing arrays, and the cosmic microwave anisotropy observations.

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