

# Get Free The Science Of Interstellar Kip S Thorne Read Pdf Free

**The Science of Interstellar** *Interstellar De ontrafeling van de kosmos Zwarte gaten blues Focus On: 100 Most Popular American Science Fiction Films* **Interstellar i nauka De antwoorden op de grote vragen** **Verborgene realiteit Ripples in Spacetime** **Brave huisvaders Deining in de ruimtetijd Als je terugkomt** **Robots In Space** **Christopher Nolan The Insightful Reader** **Cinematic Settlers Is Einstein Still Right?** *Plasma Physics* **Modern Classical Physics** *Black Holes and Time Warps* **Stars and Relativity** **Interstellar A Critical Companion to Christopher Nolan** **Christopher Nolan's Interstellar: The Complete Screenplay** **De verhalen van jouw leven en anderen** *Einstein Was Right* **Nuclear Science Abstracts** **Relativistic Astrophysics, 2 Gravitation** **Vijf miljard jaar eenzaamheid** **The New Time Travelers: A Journey to the Frontiers of Physics** **An Introduction to Modern Astrophysics** **Critical Issues in the History of Spaceflight** *Elasticity and Fluid Dynamics: Volume 3 of Modern Classical Physics* **Exploring the Universe** **Critical issues in the history of spaceflight** *Slapende reuzen* *Relativity in Curved Spacetime* **Hawking** **Hawking** **General Relativity** **Conflict and Rivalries**

The story of physicists' quest to answer a mind-boggling question: How can we travel through time? Since H. G. Wells' 1895 classic *The Time Machine*, readers of science fiction have puzzled over the paradoxes of time travel. What would happen if a time traveler tried to change history? Would some force or law of nature prevent him? Or would his action produce a "new" history, branching away from the original? In the last decade of the twentieth century a group of theoretical physicists at the California Institute of Technology undertook a serious investigation of the possibility of pastward time travel, inspiring a serious and sustained study that engaged more than thirty physicists working at universities and institutes around the world. Many of the figures involved are familiar: Einstein, Stephen Hawking and Kip Thorne; others are names known mostly to physicists. These are the new time travelers, and this is the story of their work--a profoundly human endeavor marked by advances, retreats, and no small share of surprises. It is a fantastic journey to the frontiers of physics. Some images in the ebook are not displayed owing to permissions issues. *An Introduction to Modern Astrophysics* is a comprehensive, well-organized and engaging text covering every major area of modern astrophysics, from the solar system and stellar astronomy to galactic and extragalactic astrophysics, and cosmology. Designed to provide students with a working knowledge of modern astrophysics, this textbook is suitable for astronomy and physics majors who have had a first-year introductory physics course with calculus. Featuring a brief summary of the main scientific discoveries that have led to our current understanding of the universe; worked examples to facilitate the understanding of the concepts presented in the book; end-of-chapter problems to practice the skills acquired; and computational exercises to numerically model astronomical systems, the second edition of *An Introduction to Modern Astrophysics* is the go-to textbook for learning the core astrophysics curriculum as well as the many advances in the field. Though the kinematics of the evolving universe became known decades ago, research into the physics of processes occurring in the expanding universe received a reliable observational and theoretical basis only in more recent years. These achievements have led in turn to the emergence of new problems, on which an unusually active assault has begun. This second volume of *Relativistic Astrophysics* provides a remarkably complete picture of the present state of cosmology. It is a synthesis of the theoretical foundations of contemporary cosmology, which are derived from work in relativity, plasma theory, thermodynamics, hydrodynamics, and particle physics. It presents the theoretical work that explains, describes, and predicts the nature of the universe, the physical process that occur in it, the formation of galaxies, the synthesis of the light elements, and the cosmological singularity and the theory of gravitation. This book, long and eagerly awaited, is essential for everyone whose work is related to cosmology and astrophysics. In March 2005, the NASA History Division and the Division of Space History at the National Air and Space Museum brought together a distinguished group of scholars to consider the state of the discipline of space history. This volume is a collection of essays based on those deliberations. The meeting took place at a time of extraordinary transformation for NASA, stemming from the new Vision of Space Exploration announced by President George W. Bush in January 2004: to go to the Moon, Mars, and beyond. This Vision, in turn, stemmed from a deep reevaluation of NASA's goals in the wake of the Space Shuttle Columbia accident and the recommendations of the Columbia Accident Investigation Board. The new goals were seen as initiating a "New Age of Exploration" and were placed in the context of the importance of exploration and discovery to the American experiences. (Amazon). Will and Yunes chronicle the latest adventures of scientists as they put Einstein's theory to the test in ever more precise and astonishing ways. In the process, they document the struggles of physicists to reconcile gravity with quantum mechanics, the mysteries of dark energy and dark matter, and the scientific process to seek a new understanding of the cosmos. This is a popular science book intended for the general public that describes cutting-edge theoretical physics ideas, experiments and observations with a substantial number of drawings and figures but without mathematical equations. The reader will take front seat in the roller coaster that is cutting-edge research in physics through personal anecdotes and stories. *De intrigerende zoektocht naar leven buiten ons zonnestelsel* Zijn wij de generatie die de geschiedenis zal ingaan als de ontdekkers van buitenaards leven? De kans is reëel: uit recent onderzoek blijkt dat alleen al onze Melkweg 40 miljard exoplaneten telt die potentieel bewoonbaar zijn. In dit internationaal geprezen boek gaat wetenschapsjournalist Lee Billings samen met topwetenschappers als Frank Drake, Jim Kasting en Sara Seager op zoek naar concrete sporen van leven buiten ons zonnestelsel. Die zoektocht voert hem niet alleen naar de verste uithoeken van het heelal en de Melkweg, maar ook naar onverwachte plaatsen op onze eigen planeet. De geschiedenis van de aarde leert ons namelijk veel over wat leven mogelijk maakt. Vijf miljard jaar eenzaamheid toont tegelijk hoe de jacht op exoplaneten is uitgegroeid tot een bloedstollende race tussen wetenschappers wereldwijd, allen rotsvast overtuigd dat er leven is 'out there'. Want de klok tikt. De aarde heeft nog een half miljard van haar vijf miljard jaar te gaan vooraleer complex leven definitief onmogelijk wordt. Tenzij wij er zelf veel vroeger een einde aan zouden maken door onze levensstijl. Dit meeslepende boek toont of we aan onszelf kunnen ontsnappen. Two of the greatest astrophysicists of the 20th century explore general relativity, properties of matter under astrophysical conditions, stars, and stellar systems. A valuable resource for physicists, astronomers, graduate students. 1971 edition. Op een dag ontdekt Miranda een geheimzinnig briefje in haar bibliotheekboek, geschreven door een onbekende: Ik ben gekomen om het leven van je vriend te redden, en dat van mezelf. Ik vraag je twee gunsten. Eén: je moet me een brief schrijven. Miranda vindt nog meer briefjes, achtergelaten op plaatsen waar alleen zij ze zou kunnen vinden. Het lijkt alsof de afzender alles over haar weet, zelfs dingen die nog niet eens gebeurd zijn! Van wie zijn de briefjes? En hoe kan ze door een brief te schrijven iemands leven redden? Als je terugkomt is een spannend en mysterieus verhaal over vriendschap en tijd, dat werd bekroond met de Newbery Medal 2010 voor het beste Amerikaanse jeugdboek. An authoritative interdisciplinary account of the historic discovery of gravitational waves In 1915, Albert Einstein predicted the existence of gravitational waves—ripples in the fabric of spacetime caused by the movement of large masses—as part of the theory of general relativity. A century later, researchers with the Laser Interferometer Gravitational-Wave Observatory (LIGO) confirmed Einstein's prediction, detecting gravitational waves generated by the collision of two black holes. Shedding new light on the hundred-year history of this momentous achievement, *Einstein Was Right* brings together essays by two of the physicists who won the Nobel Prize for their instrumental roles in the discovery, along with contributions by leading scholars who offer unparalleled insights into one of the most significant scientific breakthroughs of our time. This illuminating book features an introduction by Tilman Sauer and invaluable firsthand perspectives on the history and significance of the LIGO consortium by physicists Barry Barish and Kip Thorne. Theoretical physicist Alessandra Buonanno discusses the new possibilities opened by gravitational wave astronomy, and sociologist of science Harry Collins and historians of science Diana Kormos Buchwald, Daniel Kennefick, and Jürgen Renn provide further insights into the history of relativity and LIGO. The book closes with a reflection by philosopher Don Howard on the significance of Einstein's theory for the philosophy of science. Edited by Jed Buchwald, *Einstein Was Right* is a compelling and thought-provoking account of one of the most thrilling scientific discoveries of the modern age. Een zoektocht naar de theorie van alles Ruimte en tijd zijn de basiselementen van de kosmos. Maar wat zijn ruimte en tijd eigenlijk? Is ruimte een reëel bestaand iets? Waarom heeft tijd een richting? Zou het universum zonder ruimte en tijd kunnen bestaan? En de centrale vraag: hoe zit de kosmos in elkaar? De ontrafeling van de kosmos neemt de lezer mee op reis naar nieuwe lagen van de werkelijkheid, met briljant gebruik van analogieën én met humor. Van de inzichten van Newton en Einstein tot de meest recente ideeën op het gebied van de supersnaar- en M-theorie. Na het lezen van dit boek bekijkt u de werkelijkheid met andere ogen. Brian Greene (1963) studeerde aan Harvard University en Oxford University. Hij geldt als een groot deskundige op het gebied van de supersnaartheorie en geeft over de hele wereld lezingen. The Times noemt hem 'De nieuwe Hawking, maar dan beter'. Winner of the 2017 Nobel Prize in Physics Ever since Albert Einstein's general theory of relativity burst upon the world in 1915 some of the most brilliant minds of our century have sought to decipher the mysteries bequeathed by that theory, a legacy so unthinkable in some respects that even Einstein himself rejected them. Which of these bizarre phenomena, if any, can really exist in our universe? Black holes, down which anything can fall but from which nothing can return; wormholes, short spacewarps connecting regions of the cosmos; singularities, where space and time are so violently warped that time ceases to exist and space becomes a kind of foam; gravitational waves, which carry symphonic accounts of collisions of black holes billions of years ago; and time machines, for traveling backward and forward in time. Kip Thorne, along with fellow theorists Stephen Hawking and Roger Penrose, a cadre of Russians, and earlier scientists such as Oppenheimer, Wheeler and Chandrasekhar, has been in the thick of the quest to secure answers. In this masterfully written and brilliantly informed work of scientific history and explanation, Dr. Thorne, a Nobel Prize-winning physicist and the Feynman Professor of Theoretical Physics Emeritus at Caltech, leads his readers through an elegant, always human, tapestry of interlocking themes, coming finally to a uniquely informed answer to the great question: what principles control our universe and why do physicists think they know the things they think they know? Stephen Hawking's *A Brief History of Time* has been one of the greatest best-sellers in publishing history. Anyone who struggled with that book will find here a more slowly paced but equally mind-stretching experience, with the added fascination of a rich historical and human component. Winner of the Phi Beta Kappa Award in Science. First published in 1973, *Gravitation* is a landmark graduate-level textbook that presents Einstein's general theory of relativity and offers a rigorous, full-year course on the physics of gravitation. Upon publication, Science called it "a pedagogic masterpiece," and it has since become a classic, considered essential reading for every serious student and researcher in the field of relativity. This authoritative text has shaped the research of generations of physicists and astronomers, and the book continues to influence the way experts think about the subject. With an emphasis on geometric interpretation, this masterful and comprehensive book introduces the theory of relativity; describes physical applications, from stars to black holes and gravitational waves; and portrays the field's frontiers. The book also offers a unique, alternating, two-track pathway through the subject. Material focusing on basic physical ideas is designated as Track 1 and formulates an appropriate one-semester graduate-level course. The remaining Track 2 material provides a wealth of advanced topics instructors can draw on for a two-semester course, with Track 1 sections serving as prerequisites. This must-have reference for students and scholars of relativity includes a new preface by David Kaiser, reflecting on the history of the book's publication and reception, and a new introduction by Charles Misner and Kip Thorne, discussing exciting developments in the field since the book's original publication. The book teaches students to: Grasp the laws of physics in flat and curved spacetime Predict orders of magnitude Calculate using the principal tools of modern geometry Understand Einstein's geometric framework for physics Explore applications, including neutron stars, Schwarzschild and Kerr black holes, gravitational collapse, gravitational waves, cosmology, and so much more "Kip Thorne and Roger Blandford's monumental *Modern Classical Physics* is now available in five stand-alone volumes that make ideal textbooks for individual graduate or advanced undergraduate courses on statistical physics; optics; elasticity and fluid dynamics; plasma physics; and relativity and cosmology. Each volume teaches the fundamental concepts, emphasizes modern, real-world applications, and gives students a physical and intuitive understanding of the subject. *Relativity and Cosmology* is an essential introduction to the subject, including remarkable recent advances. Written by award-winning physicists who have made fundamental contributions to the field and taught it for decades, the book differs from most others on the subject in important ways. It highlights recent transformations in our understanding of black holes, gravitational waves, and the cosmos; it emphasizes the physical interpretation of general relativity in terms of measurements made by observers; it explains the physics of the Riemann tensor in terms of tidal forces, differential frame dragging, and associated field lines; it presents an astrophysically oriented description of spinning black holes; it gives a detailed analysis of an incoming gravitational wave's interaction with a detector such as LIGO; and it provides a comprehensive, in-depth account of the universe's evolution, from its earliest moments to the present. While the book is designed to be used for a one-quarter or full-semester course, it goes deep enough to provide a foundation for understanding and participating in some areas of cutting-edge research. Includes many exercise problems Features color figures, suggestions for further reading, extensive cross-references, and a detailed index Optional "Track 2" sections make this an ideal book for a one-quarter or one-semester course An online illustration package is available to professors The five volumes, which are available individually as paperbacks and ebooks, are *Statistical Physics*; *Optics*; *Elasticity and Fluid Dynamics*; *Plasma Physics*; and *Relativity and Cosmology*." -- This anthology adds to the burgeoning field of settler colonial studies by examining settler colonial narratives in the under analyzed medium of film. *Cinematic Settlers* discusses different cinematic genres, national traditions, and specific movies in order to expose related threads, shared circulations of knowledge, and paralleled representations.

Organized into thematic groupings—conquest, settlers, natives, and space—the contributors explore the question of how film compares to written genres and other visual media in representing and effecting settler colonialism on a global scale. Striving for inclusiveness, the volume covers different eras and settler colonial situations in Australia, New Zealand, Taiwan, Hawaii, the American West, Canada, Latin America, Russia, France, Algeria, German Africa, South Africa, and even the next frontier: outer space. By showing how films offer layered, contested, and dynamic settler colonial narratives that advance and challenge settler hegemonic readings, the essays enable students to better analyze and understand the complex history of diversity and colonialism in film. This book is important reading for undergraduate classes on the history of empire, colonialism, and film. (Book). MANKIND WAS BORN ON EARTH. IT WAS NEVER MEANT TO DIE HERE. Christopher Nolan takes on the infinite canvas of space to deliver a cutting-edge, emotionally charged adventure that will amaze movie audiences of all ages. This is the living blueprint of Nolan's journey. *Interstellar*, Nolan's much anticipated sci-fi film, opened in November 2014 and stars, among others, Matthew McConaughey, Anne Hathaway, Jessica Chastain, Michael Caine, Casey Affleck, William Devane, Topher Grace, John Lithgow. Een zoektocht naar de theorie van alles Ruimte en tijd zijn de basiselementen van de kosmos. Maar wat zijn ruimte en tijd eigenlijk? Is ruimte een reëel bestaand iets? Waarom heeft tijd een richting? Zou het universum zonder ruimte en tijd kunnen bestaan? En de centrale vraag: hoe zit de kosmos in elkaar? De ontrafeling van de kosmos neemt de lezer mee op reis naar nieuwe lagen van de werkelijkheid, met briljant gebruik van analogieën én met humor. Van de inzichten van Newton en Einstein tot de meest recente ideeën op het gebied van de supersnaar- en M-theorie. Na het lezen van dit boek bekijkt u de werkelijkheid met andere ogen. Brian Greene (1963) studeerde aan Harvard University en Oxford University. Hij geldt als een groot deskundige op het gebied van de supersnaartheorie en geeft over de hele wereld lezingen. The Times noemt hem 'De nieuwe Hawking, maar dan beter'. Relativity theory has become one of the icons of Twentieth Century science. It's reckoned to be a difficult subject, taught as a layered series of increasingly difficult mathematics and increasingly abstract concepts. We're told that relativity theory is supposed to be this complicated and counter-intuitive. But how much of this historical complexity is really necessary? Can we bypass the interpretations and paradoxes and pseudoparadoxes of Einstein's special theory and jump directly to a deeper and more intuitive description of reality? What if curvature is a fundamental part of physics, and a final theory of relativity shouldn't reduce to Einstein's "flat" 1905 theory //on principle//? "Relativity..." takes us on a whistlestop tour of Twentieth Century physics - from black holes, quantum mechanics, wormholes and the Big Bang to the workings of the human mind, and asks: what would physics look like without special relativity? 394 printed pages, 234156 mm, ~200 figures and illustrations, includes bibliography and index [www.relativitybook.com](http://www.relativitybook.com) Christopher Nolan is one of the defining directors of the 21st century. Few of his contemporaries can compete in terms of critical and commercial success, let alone cultural impact. His films have a rare ability to transcend audience expectations, appealing to both casual moviegoers and dyed-in-the-wool cineastes. Nolan's work ranges from gritty crime thrillers (*Memento*, *Insomnia*) to spectacular blockbusters (the *Dark Knight* trilogy, *Inception*). They have taken audiences from the depths of space (*Interstellar*) to the harsh realities of war (*Dunkirk*). And they have pushed the boundaries of the possible in modern movie making. This critical history covers his complete filmography, tracing his career from film student to indie darling to Oscar-nominated auteur. In *Interstellar* a group of explorers make use of a newly discovered wormhole to surpass the limitations on human space travel and conquer the vast distances involved in an interstellar voyage. The screenplay of *Interstellar* is written by Christopher Nolan and his frequent collaborator, Jonathan Nolan. In addition to the screenplay, this screenplay book also contains over 200 pages of storyboards and an Introduction featuring a conversation about the film with Christopher Nolan and Jonathan Nolan. The screenplay book is based on the film from Warner Bros. Pictures and Paramount Pictures. *Interstellar* and all related characters and elements are trademarks of and © Warner Bros. Entertainment Inc. (s14). A Critical Companion to Christopher Nolan provides a wide-ranging exploration of Christopher Nolan's films, practices, and collaborations. From a range of critical perspectives, this volume examines Nolan's body of work, explores its industrial and economic contexts, and interrogates the director's auteur status. This volume contributes to the scholarly debates on Nolan and includes original essays that examine all his films including his short films. It is structured into three sections that deal broadly with themes of narrative and time; collaborations and relationships; and ideology, politics, and genre. The authors of the sixteen chapters include established Nolan scholars as well as academics with expertise in approaches and perspectives germane to the study of Nolan's body of work. To these ends, the chapters employ intersectional, feminist, political, ideological, narrative, economic, aesthetic, genre, and auteur analysis in addition to perspectives from star theory, short film theory, performance studies, fan studies, adaptation studies, musicology, and media industry studies. 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 Wat zou er gebeuren als we uit zouden vinden dat alle wetmatigheden uit de wiskunde eigenlijk willekeurig en inconsistent waren? Wat als we kennis zouden maken met een taal van buitenaardse wezens die onze perceptie van tijd voor altijd zou veranderen? Wat zou er gebeuren als we een toren van Babel zouden bouwen die echt tot in de hemel reikt? Dit soort vragen stelt Ted Chiang in zijn verhalen, die je nog lang aan het denken zetten. Ted Chiang schrijft één verhaal per twee jaar. Zijn manier van schrijven combineert precisie en wetenschappelijke belangstelling met een enorm vertel talent. Zijn verhalen worden veel belangrijke prijzen zoals Hugo awards en Nebula awards. Zijn verhaal 'Het verhaal van jouw leven' is verfilmd als *Arrival* met in de hoofdrollen Amy Adams en Forest Whitaker. Read for Insights, Improve Your Life, & Make an Impact \* INSIGHTS present you with a shift in the way you think about an idea or topic. They provide you with a realization that you should change the way you think about something and reconsider the actions that you take. \* Insights from reading have the power to provide us with priceless nuggets of knowledge and wisdom. For example, you may discover a key piece of advice that helps you move away from a bad situation and to change your life around. Or you may discover words that aid you to help someone close to you in need of advice or support, perhaps helping you to save a life. Seeking out and reading insightful books will help catapult you to higher levels of success, happiness, physical and emotional health, understanding, wisdom, and peace. This is because when you read, you have access to some of the most brilliant and inspirational people of all time, and the lessons they learned. The problem is most of us learn how to read superficially in school, rather than in a deep and meaningful way. Thankfully, The Insightful Reader will help you to choose the right books to read, get more out of what you read, create a better life through reading, and ultimately to become an insightful reader, learner, and thinker. Whether you read hundreds of books or just a few per year, you will benefit from this book. With the insights you acquire through reading, you can change and empower yourself, aid those around you, and ultimately make an impact on the world. Why focus on reading? Reading is a unique vehicle for learning, where the cost in money and time for the insights gained is quite low. A workshop or course will cost magnitudes more, while you may not learn any more than you would from books. Also, you tend to learn much more from reading than you would in audio or video formats, when given the same time. Focus on becoming an Insightful Reader, and you will accomplish your goals much more effectively and efficiently. Internationally bestselling author I. C. Robledo has written The Insightful Reader based on a personal love for reading, learning, and applying what he learns. He has read over 400 books, thousands of general articles, hundreds of academic articles, and hundreds of short stories and poems. Robledo wishes to show you how to improve your reading abilities based on his experience. Inside, you will discover how to: - Find high quality, interesting books efficiently - Hunt for insights instead of meaningless facts - Make more time to read and stop making excuses - Take notes adaptively, depending on your goals - Stop getting distracted while reading - Read different books differently, depending on your purpose - Learn more effectively from very challenging books (e.g., college textbooks or highly technical texts) - Apply what you read - Bonus: 200+ high quality and insightful book recommendations Learn how to read better books and get the most out of them today with The Insightful Reader. Pick up your copy today by scrolling to the top of the page and clicking BUY NOW. A look into the history of space exploration and its possible future, and just where exactly robotics fit into it all. Given the near incomprehensible enormity of the universe, it appears almost inevitable that humankind will one day find a planet that appears to be much like the Earth. This discovery will no doubt reignite the lure of interplanetary travel. Will we be up to the task? And, given our limited resources, biological constraints, and the general hostility of space, what shape should we expect such expeditions to take? In *Robots in Space*, Roger Launius and Howard McCurdy tackle these questions with rigorous scholarship and disciplined imagination, jumping comfortably among the worlds of rocketry, engineering, public policy, and science fantasy to expound upon the possibilities and improbabilities involved in trekking across the Milky Way and beyond. They survey the literature—fictional as well as academic studies—and outline the progress of space programs in the United States and other nations. They also assess the current state of affairs to offer a conclusion startling only to those who haven't spent time with Asimov, Heinlein, and Clarke: to traverse the cosmos, humans must embrace and entwine themselves with advanced robotic technologies . . . 2008 Outstanding Academic Title, Choice Magazine Praise for *Robots in Space* "This short volume manages to capture the history of U.S. space flight, to explain the underpinnings of U.S. space policy and to plot out the possibilities for our future in space in a style that most anyone can enjoy." —Andrew McMichael, Park City Daily News This book focuses on Albert Einstein and his interactions with, and responses to, various scientists, both famous and lesser-known. It takes as its starting point that the discussions between Einstein and other scientists all represented a contribution to the edifice of general relativity and relativistic cosmology. These scientists with whom Einstein implicitly or explicitly interacted form a complicated web of collaboration, which this study explores, focusing on their implicit and explicit responses to Einstein's work. This analysis uncovers latent undercurrents, indiscernible to other approaches to tracking the intellectual pathway of Einstein to his general theory of relativity. The interconnections and interactions presented here reveal the central figures who influenced Einstein during this intellectual period. Despite current approaches to history presupposing that the efforts of scientists such as Max Abraham and Gunnar Nordström, which differed from Einstein's own views, be relegated to the background, this book shows that they all had an impact on the development of Einstein's theories, stressing the limits of approaches focusing solely on Einstein. As such, *General Relativity Conflict and Rivalries* proves that the general theory of relativity was not developed as a single, coherent construction by an isolated, brooding individual, but, rather, that it came to fruition through Einstein's conflicts and interactions with other scientists, and was consolidated by his creative processes during these exchanges. De beroemde Britse kosmoloog Stephen Hawking (1942-2018) over grote vragen zoals het bestaan van God, buitenaards leven, zwarte gaten, tijdreizen, artificiële intelligentie en de toekomst van de mensheid. In his sci-fi epic *Interstellar*, Christopher Nolan takes on the infinite canvas of space to deliver a cutting-edge, emotionally charged adventure that will amaze audiences of all ages. *Interstellar: Beyond Time and Space* documents the making of Nolan's latest masterpiece in fascinating detail and features interviews with the acclaimed director, along with screenwriter Jonathan Nolan, producer Emma Thomas, and other key members of the production team. Delving into the science and philosophy behind the film, *Interstellar: Beyond Time and Space* dynamically showcases its incredible concept art, including costume designs, storyboards, and other fascinating preproduction elements. Also featuring interviews with the exceptional cast, including Matthew McConaughey and Anne Hathaway, *Interstellar: Beyond Time and Space* tells the full story of the making of the film, with candid pictures illustrating its elaborate set pieces and reliance on classic special effects techniques. Visually enthralling and engrossing in its in-depth exploration of the themes and ideas at the heart of *Interstellar*, this book is the perfect accompaniment to one of the most anticipated films of 2014. Based on the film from Warner Bros. Pictures and Paramount Pictures. From acclaimed filmmaker Christopher Nolan ("The Dark Knight" films, "Inception"), "Interstellar" stars Oscar winner Matthew McConaughey ("Dallas Buyers Club"), Oscar winner Anne Hathaway ("Les Misérables"), Oscar nominee Jessica Chastain ("Zero Dark Thirty"), Bill Irwin ("Rachel Getting Married"), Oscar winner Ellen Burstyn ("Alice Doesn't Live Here Anymore"), and Oscar winner Michael Caine ("The Cider House Rules"). The main cast also includes Wes Bentley, Casey Affleck, David Gyasi, Mackenzie Foy and Topher Grace. Christopher Nolan directed the film from a screenplay he co-wrote with Jonathan Nolan. Emma Thomas, Christopher Nolan and Lynda Obst produced "Interstellar," with Jordan Goldberg, Jake Myers, Kip Thorne and Thomas Tull serving as executive producers. Warner Bros. Pictures and Paramount Pictures present, in association with Legendary Pictures, a Syncopy/Lynda Obst Productions production, a film by Christopher Nolan, "Interstellar." Brave huisvaders is een hilarische zedenschets over een aantal burgerlijke gezinnetjes in een slaperige buitenwijk, waar de speelplaats het middelpunt is van het leven overdag. Sarah is ongelukkig in haar rol als huismoeder en vindt geen aansluiting bij de andere moeders. Todd heeft zijn draai gevonden als huisman en teert nog steeds op zijn gloriejaren als puber. Mary Ann is een supermoeder die elke dinsdagavond stipt om negen uur seks met haar man heeft. De rustige levens van deze jonge gezinnetjes worden verstoord wanneer een vrijgekomen pedofiel in de buurt komt wonen en twee van de ouders een affaire beginnen die verder gaat dan ooit de bedoeling was. Brave huisvaders werd verfilmd als *Little Children*, en de film werd door de pers lovend ontvangen. A groundbreaking text and reference book on twenty-first-century classical physics and its applications This first-year graduate-level text and reference book covers the fundamental concepts and twenty-first-century applications of six major areas of classical physics that every masters- or PhD-level physicist should be exposed to, but often isn't: statistical physics, optics (waves of all sorts), elastodynamics, fluid mechanics, plasma physics, and special and general relativity and cosmology. Growing out of a full-year course that the eminent researchers Kip Thorne and Roger Blandford taught at Caltech for almost three decades, this book is designed to broaden the training of physicists. Its six main topical sections are also designed so they can be used in separate courses, and the book provides an invaluable reference for researchers. Presents all the major fields of classical physics except three prerequisites: classical mechanics, electromagnetism, and elementary thermodynamics Elucidates the interconnections between diverse fields and explains their shared concepts and tools Focuses on fundamental concepts and modern, real-world applications Takes applications from fundamental, experimental, and applied physics; astrophysics and cosmology; geophysics, oceanography, and meteorology; biophysics and chemical physics; engineering and optical science and technology; and information science and technology Emphasizes the quantum roots of classical physics and how to use quantum techniques to elucidate classical concepts or simplify classical calculations Features hundreds of color figures, some five hundred exercises, extensive cross-references, and a detailed index An online illustration package is available Zwarte gaten zijn donker, de naam zegt het al. Als ze botsen, is daar niets van te zien. Toch komt bij een botsing van zwarte gaten een onvoorstelbaar grote hoeveelheid kracht vrij. Einstein voorspelde, precies een eeuw geleden, dat je zou moeten

kunnen zien dat ruimte en tijd een beetje veranderen wanneer zo'n botsing plaatsvindt. Een 'zwaartekrachtgolf', die veroorzaakt dat tijd en ruimte niet meer constant zijn. Maar hoe observeer je zoiets? Wetenschappers zijn er tientallen jaren mee bezig geweest, en Janna Levin volgde hen op de voet: van de eerste tekeningen tot aan meetapparatuur van 40 kilometer groot, midden in de woestijn. De apparatuur werd aangezet. En vanaf dat moment was het afwachten. Zou er iets gebeuren? Had Einstein gelijk? Iedereen dacht dat het jaren zou duren voordat de eerste resultaten binnenkwamen. Maar nog geen twee weken later was er iets vreemds te zien... A journey through the otherworldly science behind Christopher Nolan's award-winning film, *Interstellar*, from executive producer and Nobel Prize-winning physicist Kip Thorne. *Interstellar*, from acclaimed filmmaker Christopher Nolan, takes us on a fantastic voyage far beyond our solar system. Yet in *The Science of Interstellar*, Kip Thorne, the Nobel prize-winning physicist who assisted Nolan on the scientific aspects of *Interstellar*, shows us that the movie's jaw-dropping events and stunning, never-before-attempted visuals are grounded in real science. Thorne shares his experiences working as the science adviser on the film and then moves on to the science itself. In chapters on wormholes, black holes, interstellar travel, and much more, Thorne's scientific insights—many of them triggered during the actual scripting and shooting of *Interstellar*—describe the physical laws that govern our universe and the truly astounding phenomena that those laws make possible. *Interstellar* and all related characters and elements are trademarks of and © Warner Bros. Entertainment Inc. (s14). A groundbreaking textbook on twenty-first-century fluids and elastic solids and their applications Kip Thorne and Roger Blandford's monumental *Modern Classical Physics* is now available in five stand-alone volumes that make ideal textbooks for individual graduate or advanced undergraduate courses on statistical physics; optics; elasticity and fluid dynamics; plasma physics; and relativity and cosmology. Each volume teaches the fundamental concepts, emphasizes modern, real-world applications, and gives students a physical and intuitive understanding of the subject. *Elasticity and Fluid Dynamics* provides an essential introduction to these subjects. Fluids and elastic solids are everywhere—from Earth's crust and skyscrapers to ocean currents and airplanes. They are central to modern physics, astrophysics, the Earth sciences, biophysics, medicine, chemistry, engineering, and technology, and this centrality has intensified in recent years—so much so that a basic understanding of the behavior of elastic solids and fluids should be part of the repertoire of every physicist and engineer and almost every other natural scientist. While both elasticity and fluid dynamics involve continuum physics and use similar mathematical tools and modes of reasoning, each subject can be readily understood without the other, and the book allows them to be taught independently, with the first two chapters introducing and covering elasticity and the last six doing the same for fluid dynamics. The book also can serve as supplementary reading for many other courses, including in astrophysics, geophysics, and aerodynamics. Includes many exercise problems Features color figures, suggestions for further reading, extensive cross-references, and a detailed index Optional "Track 2" sections make this an ideal book for a one-quarter or one-semester course in elasticity, fluid dynamics, or continuum physics An online illustration package is available to professors The five volumes, which are available individually as paperbacks and ebooks, are *Statistical Physics*; *Optics*; *Elasticity and Fluid Dynamics*; *Plasma Physics*; and *Relativity and Cosmology*. Stephen Hawking was widely recognized as the world's best physicist and even the most brilliant man alive—but what if his true talent was self-promotion? When Stephen Hawking died, he was widely recognized as the world's best physicist, and even its smartest person. He was neither. In *Hawking*, science journalist Charles Seife explores how Stephen Hawking came to be thought of as humanity's greatest genius. Hawking spent his career grappling with deep questions in physics, but his renown didn't rest on his science. He was a master of self-promotion, hosting parties for time travelers, declaring victory over problems he had not solved, and wooing billionaires. In a wheelchair and physically dependent on a cadre of devotees, Hawking still managed to captivate the people around him—and use them for his own purposes. A brilliant exposé and powerful biography, *Hawking* uncovers the authentic Hawking buried underneath the fake. It is the story of a man whose brilliance in physics was matched by his genius for building his own myth. Een astronomische klassieker van Nederlands' bekendste sterrenkunde-auteur voor iedereen die het heelal beter wil begrijpen. Zo'n honderd jaar nadat Einstein het bestaan van zwaartekrachtgolven had voorspeld, werden deze minuscule trillingen in de ruimtetijd door wetenschappers eindelijk echt waargenomen. Ze vormen het ontbrekende puzzelstukje in de algemene relativiteitstheorie en werpen nieuw licht op nog nauwelijks begrepen verschijnselen zoals zwarte gaten en de oerknal. In *Deining in de ruimtetijd* beschrijft Govert Schilling verleden en toekomst van de jacht op zwaartekrachtgolven, met kleurrijke anekdotes over menselijke missers én menselijk doorzettingsvermogen. Het boek verscheen vlak nadat de intrigerende rimpelingen in de ruimtetijd voor het eerst werden waargenomen, en onomstotelijk werd bewezen dat Einstein gelijk had, en groeide uit tot een standaardwerk over zwaartekrachtgolven dat nog steeds uiterst actueel is. 'Deining in de ruimtetijd is het ideale boek voor iedereen die echt alles wil weten over de geschiedenis, het heden en de toekomst van zwaartekrachtgolven-onderzoek.' NRC 'Een ronduit voortreffelijk boek volgens de beste tradities van wetenschapsjournalistiek.' De Volkskrant 'Deining in de ruimtetijd is Schilling op zijn best: teksten die even aanstekelijk als helder zijn, over een onderwerp dat razend actueel is én een lange, intrigerende historie kent.' Kijk De vertaalrechten van *Slapende reuzen* werden internationaal overgenomen en de filmrechten zijn verkocht aan Sony, waar het scenario geschreven wordt door David Koepp, scenarioschrijver van o.a. *Jurassic Park*, *Mission: Impossible* en *Spider-Man*. *Slapende reuzen* is het debuut van Sylvain Neuvel en het eerste deel in een tweeluik. Deel 2, *Ontwakende Goden*, verschijnt november 2017. Hoeveel mensenlevens is wetenschappelijke vooruitgang waard? Als Rose Franklin op haar nieuwe fietsje vlak bij haar huis in Deadwood, South Dakota rijdt, valt ze plotseling in een enorm gat in de aarde. Ze komt bij op de bodem van een nagenoeg perfect vierkante kuil, waarvan de muren vol staan met ingewikkelde gravingen die licht geven en lijken te pulseren. Maar de brandweermannen die haar komen redden, staren naar een nog vreemder schouwspel: een klein, geschrokken meisje in de palm van een reusachtige metalen hand. Zeventien jaar later is het mysterie van dit bizarre artefact nog altijd onopgelost; de oorsprong, de maker en het doel zijn onbekend. Rose Franklin is inmiddels een hoogopgeleide natuurkundige die een topgeheim team leidt om het mysterie van de gigantische hand te ontrafelen. Samen met haar collega's wordt ze aangestuurd door een naamloze man wiens macht en functie net zo mysterieus zijn als de herkomst van het object. Duidelijk is dat Rose en haar onderzoekers op het punt staan de meest merkwaardige ontdekking in de geschiedenis te ontrafelen, en de betekenis ervan voor de mensheid bloot te leggen. Maar als de stukjes van de puzzel eenmaal op hun plaats liggen, zal het resultaat dan juist een middel voor eeuwige vrede of een wapen voor massavernietiging blijken te zijn?

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