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Cosmos Star Stuff Carl Sagan's Cosmic Connection Cosmos: Possible Worlds Cosmos Carl Sagan Contact Pale Blue Dot Carl Sagan See You in the Cosmos A Reader-study Guide for Cosmos, Carl Sagan A Viewer's Guide to Cosmos, Carl Sagan Carl Sagan Cosmos by Carl Sagan (Summary) The Human Cosmos Billions & Billions See You in the Cosmos The Demon-Haunted World Other Worlds The New Cosmos The Varieties of Scientific Experience The Harmony of the World Carl Sagan: Celebrated Cosmos Scholar Summary of Cosmos by Carl Sagan Cosmos Summary: Cosmos Beyond Cosmos Cosmos 1999 - The Third Year of Space 1999 The Cosmic Connection See You in the Cosmos, Carl Sagan Comet Lost Discoveries Dragons of Eden Shadows of Forgotten Ancestors Broca's Brain The Illustrated A Brief History of Time Cosmos Possible Worlds The Future of Humanity The Hercules Text 30 Lessons for Loving

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A fascinating and spectacular exploration of the cosmos that provides readers with a definitive view of the latest discoveries. RETURNING TO TELEVISION AS AN ALL-NEW MINISERIES ON FOX Cosmos is one of the bestselling science books of all time. In clear-eyed prose, Sagan reveals a jewel-like blue world inhabited by a life form that is just beginning to discover its own identity and to venture into the vast ocean of space. Featuring a new Introduction by Sagan's collaborator, Ann Druyan, full color illustrations, and a new Foreword by astrophysicist Neil deGrasse Tyson, Cosmos retraces the fourteen billion years of cosmic evolution that have transformed matter into consciousness, exploring such topics as the origin of life, the human brain, Egyptian hieroglyphics, spacecraft missions, the death of the Sun, the evolution of galaxies, and the forces and individuals who helped to shape modern science. Praise for Cosmos "Magnificent . . . With a lyrical literary style, and a range that touches almost all aspects of human knowledge, Cosmos often seems too good to be true."—The Plain Dealer "Sagan is an astronomer with one eye on the stars, another on history, and a third—his mind's—on the human condition."—Newsday "Brilliant in its scope and provocative in its suggestions . . . shimmers with a sense of wonder."—The Miami Herald "Sagan dazzles the mind with the miracle of our survival, framed by the stately galaxies of space."—Cosmopolitan "Enticing . . . iridescent . . . imaginatively illustrated."—The New York Times Book Review Portrays the life and work of one of the most famous and influential scientists of the late 20th century - the astronomer Carl Sagan. Cosmos by Carl Sagan | Book Summary | Abbey Beathan (Disclaimer: This is NOT the original book. If you're looking for the original book, search this link: <http://amzn.to/2E3gvHM>) Astronomer Carl Sagan knocks it out of the park with one of the most successful bestselling science book of all times. Have you ever been curious about the vast universe that surrounds you? About all of its mysteries and intricacies? If so, Cosmos will be a perfect acquisition. Carl Sagan does the hard feat of writing about an extremely complicated subject and explaining it in an unbelievably simple way, which is only a testament of his intellectual grasp on the field. Get ready to explore the most mysterious place in the world, space and learn all about it. (Note: This summary is wholly written and published by Abbey Beathan. It is not affiliated with the original author in any way) "We are like butterflies who flutter for a day and think it is forever." - Carl Sagan Retracing the fourteen billion years of cosmic evolution, Cosmos explores deep and highly debated topics like the origin of life, spacecraft mission, the death of the sun, the evolution of galaxies and many more. You'll definitely learn a lot about space once you are done with this awesome book. One of the most complex subjects broken down in a simple way, Carl Sagan and his brilliant literary style and grasp of the subject will blow you away. P.S. Cosmos is an extraordinary book that dives into the vast ocean that is space. P.P.S. It was Albert Einstein who famously said that once you stop learning, you start dying. It was Bill Gates who said that he would want the ability to read faster if he could only have one superpower in this world. Abbey Beathan's mission is to bring across amazing golden nuggets in amazing books through our summaries. Our vision is to make reading non-fiction fun, dynamic and captivating. Ready To Be A Part Of Our Vision & Mission? Scroll Up Now and Click on the "Buy now with 1-Click" Button to Get Your Copy. Why Abbey Beathan's Summaries? How Can Abbey Beathan Serve You? Amazing Refresher if you've read the original book before Priceless Checklist in case you missed out any crucial lessons/details Perfect Choice if you're interested in the original book but never read it before FREE 2 Page Printable Summary BONUS for you to paste in on your office, home etc Disclaimer Once Again: This book is meant for a great companionship of the original book or to simply get the gist of the original book. If you're looking for the original book, search for this link: <http://amzn.to/2E3gvHM> "One of the greatest and most powerful gift in life is the gift of knowledge. The way of success is the way of continuous pursuit of knowledge" - Abbey Beathan Book dedicated to: Carl Sagan, Cosmos & Science, let us push forwards in science and poetry always. This is just expression. Self expression alone. A prescient warning of a future we now inhabit, where fake news stories and Internet conspiracy theories play to a disaffected American populace "A glorious book . . . A spirited defense of science . . . From the first page to the last, this book is a manifesto for clear thought."—Los Angeles Times How can we make intelligent decisions about our increasingly technology-driven lives if we don't understand the difference between the myths of pseudoscience and the testable hypotheses of science? Pulitzer Prize-winning author and distinguished astronomer Carl Sagan argues that scientific thinking is critical not only to the pursuit of truth but to the very well-being of our democratic institutions. Casting a wide net through history and culture, Sagan examines and authoritatively debunks such celebrated fallacies of the past as witchcraft, faith healing, demons, and UFOs. And yet, disturbingly, in today's so-called information age, pseudoscience is burgeoning with stories of alien abduction, channeling past lives, and communal hallucinations commanding growing attention and respect. As Sagan demonstrates with lucid eloquence, the siren song of unreason is not just a cultural wrong turn but a dangerous plunge into darkness that threatens our most basic freedoms. Praise for The Demon-Haunted World "Powerful . . . A stirring defense of informed rationality. . . Rich in surprising information and beautiful writing."—The Washington Post Book World "Compelling."—USA Today "A clear vision of what good science means and why it makes a difference. . . . A testimonial to the power of science and a warning of the dangers of unrestrained credulity."—The Sciences "Passionate."—San Francisco Examiner-Chronicle This sequel to Carl Sagan's blockbuster continues the electrifying journey through space and time, connecting with worlds billions of miles away and envisioning a future of science tempered with wisdom. Based on National Geographic's internationally-renowned television series, this groundbreaking and visually stunning book explores how science and civilization grew up together. From the emergence of life at deep-sea vents to solar-powered starships sailing through the galaxy, from the Big Bang to the intricacies of intelligence in many life forms, acclaimed author Ann Druyan documents where humanity has been and where it is going, using her unique gift of bringing complex scientific concepts to life. With evocative photographs and vivid illustrations, she recounts momentous discoveries, from the Voyager missions in which she and her husband, Carl Sagan, participated to Cassini-Huygens's recent insights into Saturn's moons. This breathtaking sequel to Sagan's masterpiece explains how we humans can glean a new understanding of consciousness here on Earth and out in the cosmos--again reminding us that our planet is a pale blue dot in an immense universe of possibility. Much can be gleaned by reflecting on how Carl Sagan captured the hearts and minds of so many people through science. I will examine the tenets of science communication Carl Sagan successfully employed to overcome the many problems inherent to explaining complex topics. Though Sagan inspires in us a belief that the public can be intrigued by the wonders of science, the methods employed by Cosmos to connect with viewers are now outdated. Television has evolved beyond the heavy box in the corner of the living room and has become the iPad, the laptop computer, and the mobile phone. All are personal devices populated by Internet channels teeming with endless amounts of information. Not only have our modes of watching changed but also so have our programs. The format that worked for science television in the 1980s no longer seems to entertain or captivate audiences like it used to. This paper will examine the need to respond to those changes in consumption and production to create opportunities for the public to connect with science through the modes most common to our current culture. Reality-based, competition-driven, and audience- participation shows are the new standard in nonfiction television. With the willing participation

of scientists and the creativity of filmmakers, we should work to mold those formats around new science programs. This effort would ensure a better public understanding of science and bring science more prominently into the realm of popular culture and discussion. With lucid prose that recalls the best-selling and beloved *Cosmos*, Ann Druyan takes readers on an extraordinary journey through the vast and unexplored realms of Earth and space, past and future, fact and imagination. Written and published in coordination with the sensational international television debut of a second season of National Geographic's *Cosmos*, *Cosmos Possible Worlds* travels through more than 14 billion years of cosmic evolution and into an astonishing future where probes travel by light beams to distant stars, helping us solve enduring mysteries of our origins and dream of an unimaginable time ahead. Along the way, we meet the colorful characters who push beyond the boundaries of knowledge--both the little-known but monumental visionaries of the past and the scientists whose work is shaping our future. Color photographs, art, and diagrams based on graphics created for the television series--plus a foreword by Neil deGrasse Tyson, best-selling author, wildly popular science commentator, and host of *Cosmos* on the National Geographic Channel--complete this highly anticipated package. **NEW YORK TIMES BESTSELLER** • In the final book of his astonishing career, Carl Sagan brilliantly examines the burning questions of our lives, our world, and the universe around us. These luminous, entertaining essays travel both the vastness of the cosmos and the intimacy of the human mind, posing such fascinating questions as how did the universe originate and how will it end, and how can we meld science and compassion to meet the challenges of the coming century? Here, too, is a rare, private glimpse of Sagan's thoughts about love, death, and God as he struggled with fatal disease. Ever forward-looking and vibrant with the sparkle of his unquenchable curiosity, *Billions & Billions* is a testament to one of the great scientific minds of our day. Praise for *Billions & Billions* "[Sagan's] writing brims with optimism, clarity and compassion."—Ft. Lauderdale Sun-Sentinel "Sagan used the spotlight of his fame to illuminate the abyss into which stupidity, greed, and the lust for power may yet dump us. All of those interests and causes are handsomely represented in *Billions & Billions*."—The Washington Post Book World "Astronomer Carl Sagan didn't live to see the millennium, but he probably has done more than any other popular scientist to prepare us for its arrival."—Atlanta Journal & Constitution "*Billions & Billions* can be interpreted as the Silent Spring for the current generation. . . . Human history includes a number of leaders with great minds who gave us theories about our universe and origins that ran contrary to religious dogma. Galileo determined that the Earth revolved around the Sun, not the other way around. Darwin challenged Creationism with his *Evolution of Species*. And now, Sagan has given the world its latest challenge: *Billions & Billions*."—San Antonio Express-News "[Sagan's] inspiration and boundless curiosity live on in the gift of his work."—Seattle Times & Post-Intelligencer "Couldn't stay awake in your high school science classes? This book can help fill in the holes. Acclaimed scientist Carl Sagan combines his logic and knowledge with wit and humor to make a potentially dry subject enjoyable to read."—The Dallas Morning News "I haven't read anything that has moved me this much since *Wonder*." —Jennifer Niven, author of *All the Bright Places* A space-obsessed boy and his dog, Carl Sagan, take a journey toward family, love, hope, and awe in this funny and moving novel for fans of *Counting by 7s*, *Walk Two Moons*, and *The Curious Incident of the Dog in the Night-Time*. 11-year-old Alex Petroski loves space and rockets, his mom, his brother, and his dog Carl Sagan—named for his hero, the real-life astronomer. All he wants is to launch his golden iPod into space the way Carl Sagan (the man, not the dog) launched his Golden Record on the Voyager spacecraft in 1977. From Colorado to New Mexico, Las Vegas to L.A., Alex records a journey on his iPod to show other lifeforms what life on earth, his earth, is like. But his destination keeps changing. And the funny, lost, remarkable people he meets along the way can only partially prepare him for the secrets he'll uncover—from the truth about his long-dead dad to the fact that, for a kid with a troubled mom and a mostly not-around brother, he has way more family than he ever knew. Jack Cheng's debut is full of joy, optimism, determination, and unbelievable heart. To read the first page is to fall in love with Alex and his view of our big, beautiful, complicated world. To read the last is to know he and his story will stay with you a long, long time. "Stellar." —Entertainment Weekly "Life-embracing." —The Wall Street Journal "Works beautifully." —The New York Times Book Review "Irresistible." —The Chicago Tribune "The best I've read in a long, long time." —Holly Goldberg Sloan, author of *Counting by 7s* "Riveting, inspiring, and sometimes hilariously." —Kirkus, starred review "A propulsive stream-of-conscious dive." —Publishers Weekly, starred review "A gift—a miracle." —Paul Griffin, author *When Friendship Followed Me Home* "Exuberant." —Booklist "Full of the real kind of magic." —Ally Condie, author of *Matched* "Absorbing, irresistible." —Common Sense Media "Incredible." —BookRiot "Full of innocence and unwavering optimism." —SLC "Inspiring." —Time for Kids "Powerfully affirms our human capacity for grace and love and understanding." —Gary D. Schmidt, author of *Okay for Now* "Eleven-year-old Alex Petroski, along with his dog, Carl Sagan, makes big discoveries about his family on a road trip and he records it all on a golden iPod he intends to launch into space"-- "Ann Druyan has unearthed a treasure. It is a treasure of reason, compassion, and scientific awe. It should be the next book you read." —Sam Harris, author of *The End of Faith* "A stunningly valuable legacy left to all of us by a great human being. I miss him so." —Kurt Vonnegut Carl Sagan's prophetic vision of the tragic resurgence of fundamentalism and the hope-filled potential of the next great development in human spirituality The late great astronomer and astrophysicist describes his personal search to understand the nature of the sacred in the vastness of the cosmos. Exhibiting a breadth of intellect nothing short of astounding, Sagan presents his views on a wide range of topics, including the likelihood of intelligent life on other planets, creationism and so-called intelligent design, and a new concept of science as "informed worship." Originally presented at the centennial celebration of the famous Gifford Lectures in Scotland in 1985 but never published, this book offers a unique encounter with one of the most remarkable minds of the twentieth century. A classic book by the world's most famous scientist and science visionary, back in print with a new perspective. From the author of the beloved *30 Lessons for Living* Karl Pillemer's *30 Lessons for Living* first became a hit and then became a classic. Readers loved the sage advice and great stories from extraordinary older Americans who shared what they wish they had known when they were starting out. Now, Pillemer returns with lessons on one of the most talked- about parts of that book—love, relationships, and marriage. Based on the most detailed survey of longmarried people ever conducted, *30 Lessons for Loving* shows the way to lifelong, fulfilling relationships. The author, an internationally renowned gerontologist at Cornell University, offers sage advice from the oldest and wisest Americans on everything from finding a partner, to deciding to commit, to growing old together. Along the way, the book answers questions like these: How do you know if the person you love is the right one? What are the secrets for improving communication and reducing conflict? What gets you through the major stresses of marriage, such as child-rearing, work, money issues, and in-laws? From interviews with 700 elders, *30 Lessons for Loving* offers unique wisdom that will enrich anyone's relationship life, from people searching for the right partner to those working to keep the spark alive after decades together. Filled with great stories, wise observations, and useful advice, *30 Lessons for Loving* is destined to become another classic. In the years since its publication in 1988, Stephen Hawking's *A Brief History Of Time* has established itself as a landmark volume in scientific writing. It has become an international publishing phenomenon, translated into forty languages and selling over nine million copies. The book was on the cutting edge of what was then known about the nature of the universe, but since that time there have been extraordinary advances in the technology of macrocosmic worlds. These observations have confirmed many of Professor Hawking's theoretical predictions in the first edition of his book, including the recent discoveries of the Cosmic Background Explorer satellite (COBE), which probed back in time to within 300,000 years of the fabric of space-time that he had projected. Eager to bring to his original text the new knowledge revealed by these many observations, as well as his recent research, for this expanded edition Professor Hawking has prepared a new introduction to the book, written an entirely new chapter on the fascinating subject of wormholes and time travel, and updated the original chapters. In addition, to heighten understanding of complex concepts that readers may have found difficult to grasp despite the clarity and wit of Professor Hawking's writing, this edition is enhanced throughout with more than 240 full-color illustrations, including satellite images, photographs made possible by spectacular technological advance such as the Hubble Space Telescope, and computer generated images of three and four-dimensional realities. Detailed captions clarify these illustrations, enable readers to experience the vastness of intergalactic space, the nature of black holes, and the microcosmic world of particle physics in which matters and antimatter collide. A classic work that now brings to the reader the latest understanding of cosmology, *A Brief History Of Time* is the story of the ongoing search for the tantalizing secrets at the heart of time and space. What does Gerry Anderson's television series *SPACE 1999* have in common with Carl Sagan's award-winning television documentary *COSMOS*? Not very much, one might expect, but this book documents an Online Alpha discussion where fans of the science fiction series discuss and debate differences and similarities from a wide range of perspectives, some of them arguing that two series may be so closely connected that it might be natural to think of *COSMOS* as the third year of *SPACE 1999*. This book is written on an idealistic basis. It is sold at the lowest price the publisher was willing to accept. A free e-book version can be downloaded at www.lulu.com. Annotation Carl Sagan was a gifted astronomer with a talent for communicating complex ideas to ordinary people. What are these graceful visitors to our skies? We now know that they bring both life and death and teach us about our origins. Comet begins with a breathtaking journey through space astride a comet. Pulitzer Prize-winning astronomer Carl Sagan, author of *Cosmos* and *Contact*, and writer Ann Druyan explore the origin, nature, and future of comets, and the exotic myths and portents attached to them. The authors show how comets have spurred some of the great discoveries in the history of science and raise intriguing questions about these brilliant visitors from the interstellar dark. Were the fates of the dinosaurs and the origins of humans tied to the wanderings of a comet? Are comets the building blocks from which worlds are formed? Lavishly illustrated with photographs and specially commissioned full-color paintings, *Comet* is an enthralling adventure, indispensable for anyone who has ever gazed up at the heavens and wondered why. Praise for *Comet* "Simply the best." —The Times of London "Fascinating, evocative, inspiring." —The Washington Post "Comet humanizes science. A beautiful, interesting book." —United Press International "Masterful . . . science, poetry, and imagination." —The Atlanta Journal & Constitution The classic first-contact science fiction novel that launched the career of Jack McDevitt, the national bestselling author of *Coming Home*—now revised from the original edition, and featuring a new foreword. From a remote corner of the galaxy a message is being sent. The continuous beats of a pulsar have become odd, irregular. . . artificial. It can only be a code. Frantically, a research team struggles to decipher the alien communication. And what the scientists discover is destined to shake the foundations of empires around this world—from Wall Street to the Vatican. . . "A biography of Carl Sagan focusing on his childhood and culminating in the Voyager mission and the Golden Record"--Provided by publisher. "I haven't read anything that has moved me this much since *Wonder*." —Jennifer Niven, author of *All the Bright Places* A space-obsessed boy and his dog, Carl Sagan, take a journey toward family, love, hope, and awe in this funny and moving novel for fans of *Counting by 7s*, *Walk Two Moons*, and *The Curious Incident of the Dog in the Night-Time*. 11-year-old Alex Petroski loves space and rockets, his mom, his brother, and his dog Carl Sagan—named for his hero, the real-life astronomer. All he wants is to launch his golden iPod into space the way Carl Sagan (the man, not the dog) launched his Golden Record on the Voyager spacecraft in 1977. From Colorado to New Mexico, Las Vegas to L.A., Alex records a journey on his iPod to show other lifeforms what life on earth, his earth, is like. But his destination keeps changing. And the funny, lost, remarkable people he meets along the way can only partially prepare him for the secrets he'll uncover—from the truth about his long-dead dad to the fact that, for a kid with a troubled mom and a mostly not-around brother, he has way more family than he ever knew. Jack Cheng's debut is full of joy, optimism, determination, and unbelievable heart. To read the first page is to fall in love with Alex and his view of our big, beautiful, complicated world. To read the last is to know he and his story will stay with you a long, long time. "Stellar." —Entertainment Weekly "Life-embracing." —The Wall Street Journal "Works beautifully." —The New York Times Book Review "Irresistible." —The Chicago Tribune "The best I've read in a long, long time." —Holly Goldberg Sloan, author of *Counting by 7s* "Riveting, inspiring, and sometimes hilarious." —Kirkus, starred review "A propulsive stream-of-conscious dive." —Publishers Weekly, starred review "A gift—a miracle." —Paul Griffin, author *When Friendship Followed Me Home* "Exuberant." —Booklist "Full of the real kind of magic." —Ally Condie, author of *Matched* "Absorbing, irresistible." —Common Sense Media "Incredible." —BookRiot "Full of innocence and unwavering optimism." —SLC "Inspiring." —Time for Kids "Powerfully affirms our human capacity for grace and love and understanding." —Gary D. Schmidt, author of *Okay for Now* *Cosmos* by Carl Sagan - Book Summary - Abbey Beathan (Disclaimer: This is NOT the original book.) Astronomer Carl Sagan knocks it out of the park with one of the most successful bestselling science book of all times. Have you ever been curious about the vast universe that surrounds you? About all of its mysteries and intricacies? If so, *Cosmos* will be a perfect acquisition. Carl Sagan does the hard feat of writing about an extremely complicated subject and explaining it in an unbelievably simple way, which is only a testament of his intellectual grasp on the field. Get ready to explore the most mysterious place in the world, space and learn all about it. (Note: This summary is wholly written and published by Abbey Beathan. It is not affiliated with the original author in any way) "We are like butterflies who flutter for a day and think it is forever." - Carl Sagan *Retracing the fourteen billion*

years of cosmic evolution, Cosmos explores deep and highly debated topics like the origin of life, spacecraft mission, the death of the sun, the evolution of galaxies and many more. You'll definitely learn a lot about space once you are done with this awesome book. One of the most complex subjects broken down in a simple way, Carl Sagan and his brilliant literary style and grasp of the subject will blow you away. P.S. Cosmos is an extraordinary book that dives into the vast ocean that is space. P.P.S. It was Albert Einstein who famously said that once you stop learning, you start dying. It was Bill Gates who said that he would want the ability to read faster if he could only have one superpower in this world. Abbey Beathan's mission is to bring across amazing golden nuggets in amazing books through our summaries. Our vision is to make reading non-fiction fun, dynamic and captivating. Ready To Be A Part Of Our Vision & Mission? Scroll Up Now and Click on the "Buy now with 1-Click" Button to Get Your Copy. Why Abbey Beathan's Summaries? How Can Abbey Beathan Serve You? Amazing Refresher if you've read the original book before Priceless Checklist in case you missed out any crucial lessons/details Perfect Choice if you're interested in the original book but never read it before Disclaimer Once Again: This book is meant for a great companionship of the original book or to simply get the gist of the original book. "One of the greatest and most powerful gift in life is the gift of knowledge. The way of success is the way of continuous pursuit of knowledge" - Abbey Beathan A fascinating book on the joys of discovering how the world works, by the Pulitzer Prize-winning author of Cosmos and Shadows of Forgotten Ancestors. "Magnificent . . . Delightful . . . A masterpiece. A message of tremendous hope for humanity . . . While ever conscious that human folly can terminate man's march into the future, Sagan nonetheless paints for us a mind-boggling future: intelligent robots, the discovery of extraterrestrial life and its consequences, and above all the challenge and pursuit of the mystery of the universe."—Chicago Tribune "Go out and buy this book, because Carl Sagan is not only one of the world's most respected scientists, he's a great writer. . . . I can give a book no greater accolade than to say I'm planning on reading it again. And again. And again."—The Miami Herald "The brilliant astronomer . . . is persuasive, provocative and readable."—United Press International "Closely reasoned, impeccably researched, gently humorous, utterly devastating."—The Washington Post A Best Book of 2020 NPR A Best Book of 2020 The Economist A Top Ten Best Science Book of 2020 Smithsonian A Best Science & Technology Book of 2020 Library Journal A Must-Read Book to Escape the Chaos of 2020 Newsweek Starred review Booklist Starred review Publishers Weekly An historically unprecedented disconnect between humanity and the heavens has opened. Jo Marchant's book can begin to heal it. For at least 20,000 years, we have led not just an earthly existence but a cosmic one. Celestial cycles drove every aspect of our daily lives. Our innate relationship with the stars shaped who we are--our art, religious beliefs, social status, scientific advances, and even our biology. But over the last few centuries we have separated ourselves from the universe that surrounds us. It's a disconnect with a dire cost. Our relationship to the stars and planets has moved from one of awe, wonder and superstition to one where technology is king--the cosmos is now explored through data on our screens, not by the naked eye observing the natural world. Indeed, in most countries modern light pollution obscures much of the night sky from view. Jo Marchant's spellbinding parade of the ways different cultures celebrated the majesty and mysteries of the night sky is a journey to the most awe inspiring view you can ever see--looking up on a clear dark night. That experience and the thoughts it has engendered have radically shaped human civilization across millennia. The cosmos is the source of our greatest creativity in art, in science, in life. To show us how, Jo Marchant takes us to the Hall of the Bulls in the caves at Lascaux in France, and to the summer solstice at a 5,000-year-old tomb at New Grange in Ireland. We discover Chumash cosmology and visit medieval monks grappling with the nature of time and Tahitian sailors navigating by the stars. We discover how light reveals the chemical composition of the sun, and we are with Einstein as he works out that space and time are one and the same. A four-billion-year-old meteor inspires a search for extraterrestrial life. The cosmically liberating, summary revelation is that star-gazing made us human. NEW YORK TIMES BESTSELLER • The national bestselling author of The God Equation traverses the frontiers of astrophysics, artificial intelligence, and technology to offer a stunning vision of man's future in space, from settling Mars to traveling to distant galaxies. "Amazing ... Kaku is in smooth perfect control of it the entire time." —The Christian Science Monitor We are entering a new Golden Age of space exploration. With irrepressible enthusiasm and a deep understanding of the cutting-edge research in space travel, world-renowned physicist and futurist Dr. Michio Kaku presents a compelling vision of how humanity may develop a sustainable civilization in outer space. He reveals the developments in robotics, nanotechnology, and biotechnology that may allow us to terraform and build habitable cities on Mars and beyond. He then journeys out of our solar system and discusses how new technologies such as nanoships, laser sails, and fusion rockets may actually make interstellar travel a possibility. We travel beyond our galaxy, and even beyond our universe, as Kaku investigates some of the hottest topics in science today, including warp drive, wormholes, hyperspace, parallel universes, and the multiverse. Ultimately, he shows us how humans may someday achieve a form of immortality and be able to leave our bodies entirely, laser porting to new havens in space. In this compelling life of Carl Sagan, award-winning science writer William Poundstone details the transformation of a bookish young astronomer obsessed with life on other worlds into science's first authentic media superstar. The instantly recognizable Sagan, a fixture on television and a bestselling author, offered the layperson entry into the mysteries of the cosmos and of science in general. To much of the scientific community, however, he was a pariah, a brazen publicity seeker who cared more about his image and his fortune than the advancement of science. Poundstone reveals the seldom-discussed aspects of Sagan's life, the legitimate and important work of his early scientific career, the almost obsessive capacity to take on endless projects, and the multiple marriages and fractured personal life, in what The New Yorker called an "evenhanded guide" to a great man's career. The authors have presented and interpreted Johannes Kepler's Latin text to English readers by putting it into the kind of clear but earnest language they suppose Kepler would have used if he had been writing today. Pulitzer Prize-winning author and astronomer Carl Sagan imagines the greatest adventure of all—the discovery of an advanced civilization in the depths of space. In December of 1999, a multinational team journeys out to the stars, to the most awesome encounter in human history. Who—or what—is out there? In Cosmos, Carl Sagan explained the universe. In Contact, he predicts its future—and our own. Meet Carl Sagan, known for his research on extraterrestrial life! Follow Sagan's story as he theorizes on the temperature of Venus's surface, works with NASA to build the Mariner 2, Viking I, and Viking II probes, and creates the popular PBS program Cosmos. Infographics, historic photos, and a glossary enhance readers' understanding of this topic. Additional features include a table of contents, an index, a timeline and fun facts. Aligned to Common Core Standards and correlated to state standards. Checkerboard Library is an imprint of Abdo Publishing, a division of ABDO. Do you want more free book summaries like this? Download our app for free at <https://www.QuickRead.com/App> and get access to hundreds of free book and audiobook summaries. Unlock the mysteries of the universe. Have you ever paused for a moment to ponder the complexities of the universe? Or wondered what it would be like to understand what's really going on up there? Carl Sagan's revolutionary expose of the cosmos seeks to answer those questions and more. By unpacking the concepts which characterize our understanding of the universe and our place in it, Sagan takes you on an unparalleled intergalactic journey. "A history of the human brain from the big bang, fifteen billion years ago, to the day before yesterday . . . It's a delight."—The New York Times Dr. Carl Sagan takes us on a great reading adventure, offering his vivid and startling insight into the brain of man and beast, the origin of human intelligence, the function of our most haunting legends—and their amazing links to recent discoveries. "How can I persuade every intelligent person to read this important and elegant book? . . . He talks about all kinds of things: the why of the pain of human childbirth . . . the reason for sleeping and dreaming . . . chimpanzees taught to communicate in deaf and dumb language . . . the definition of death . . . cloning . . . computers . . . intelligent life on other planets. . . . Fascinating . . . delightful."—The Boston Globe "In some lost Eden where dragons ruled, the foundations of our intelligence were laid. . . . Carl Sagan takes us on a guided tour of that lost land. . . . Fascinating . . . entertaining . . . masterful."—St. Louis Post-Dispatch NATIONAL BESTSELLER • "Exciting and provocative . . . A tour de force of a book that begs to be seen as well as to be read."—The Washington Post Book World World renowned scientist Carl Sagan and acclaimed author Ann Druyan have written a Roots for the human species, a lucid and riveting account of how humans got to be the way we are. Shadows of Forgotten Ancestors is a thrilling saga that starts with the origin of the Earth. It shows with humor and drama that many of our key traits—self-awareness, technology, family ties, submission to authority, hatred for those a little different from ourselves, reason, and ethics—are rooted in the deep past, and illuminated by our kinship with other animals. Sagan and Druyan conduct a breathtaking journey through space and time, zeroing in on critical turning points in evolutionary history, and tracing the origins of sex, altruism, violence, rape, and dominance. Their book culminates in a stunningly original examination of the connection between primate and human traits. Astonishing in its scope, brilliant in its insights, and an absolutely compelling read, Shadows of Forgotten Ancestors is a triumph of popular science. Lost Discoveries, Dick Teresi's innovative history of science, explores the unheralded scientific breakthroughs from peoples of the ancient world -- Babylonians, Egyptians, Indians, Africans, New World and Oceanic tribes, among others -- and the non-European medieval world. They left an enormous heritage in the fields of mathematics, astronomy, cosmology, physics, geology, chemistry, and technology. The mathematical foundation of Western science is a gift from the Indians, Chinese, Arabs, Babylonians, and Maya. The ancient Egyptians developed the concept of the lowest common denominator, and they developed a fraction table that modern scholars estimate required 28,000 calculations to compile. The Babylonians developed the first written math and used a place-value number system. Our numerals, 0 through 9, were invented in ancient India; the Indians also boasted geometry, trigonometry, and a kind of calculus. Planetary astronomy as well may have begun with the ancient Indians, who correctly identified the relative distances of the known planets from the sun, and knew the moon was nearer to the earth than the sun was. The Chinese observed, reported, dated, recorded, and interpreted eclipses between 1400 and 1200 b.c. Most of the names of our stars and constellations are Arabic. Arabs built the first observatories. Five thousand years ago, the Sumerians said the earth was circular. In the sixth century, a Hindu astronomer taught that the daily rotation of the earth on its axis provided the rising and setting of the sun. Chinese and Arab scholars were the first to use fossils scientifically to trace earth's history. Chinese alchemists realized that most physical substances were merely combinations of other substances, which could be mixed in different proportions. Islamic scholars are legendary for translating scientific texts of many languages into Arabic, a tradition that began with alchemical books. In the eleventh century, Avicenna of Persia divined that outward qualities of metals were of little value in classification, and he stressed internal structure, a notion anticipating Mendeleev's periodic chart of elements. Iron suspension bridges came from Kashmir, printing from India; papermaking was from China, Tibet, India, and Baghdad; movable type was invented by Pi Sheng in about 1041; the Quechuan Indians of Peru were the first to vulcanize rubber; Andean farmers were the first to freeze-dry potatoes. European explorers depended heavily on Indian and Filipino shipbuilders, and collected maps and sea charts from Javanese and Arab merchants. The first comprehensive, authoritative, popularly written, multicultural history of science, Lost Discoveries fills a crucial gap in the history of science. "Fascinating . . . memorable . . . revealing . . . perhaps the best of Carl Sagan's books."—The Washington Post Book World (front page review) In Cosmos, the late astronomer Carl Sagan cast his gaze over the magnificent mystery of the Universe and made it accessible to millions of people around the world. Now in this stunning sequel, Carl Sagan completes his revolutionary journey through space and time. Future generations will look back on our epoch as the time when the human race finally broke into a radically new frontier—space. In Pale Blue Dot, Sagan traces the spellbinding history of our launch into the cosmos and assesses the future that looms before us as we move out into our own solar system and on to distant galaxies beyond. The exploration and eventual settlement of other worlds is neither a fantasy nor luxury, insists Sagan, but rather a necessary condition for the survival of the human race. "Takes readers far beyond Cosmos . . . Sagan sees humanity's future in the stars."—Chicago Tribune

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