

Astrophysics For People In Hurry By Neil Degrasse Tyson Ebook

Astrophysics for People in a HurryW. W. Norton & Company

?Astrophysics for People in a Hurry by Neil deGrasse Tyson - Book Summary - Readtrepreneur (Disclaimer: This is NOT the original book, but an unofficial summary.) Haven't you always wanted to understand the universe? Then Astrophysics for People in a Hurry is the right book for you. Astrophysics for People in a Hurry will help you educate yourself on one of the most mysterious topics of modern-day science. With this book, you will get acquainted with all the main ideas and discoveries which are at the foundation of everything we know about the universe today. (Note: This summary is wholly written and published by readtrepreneur.com It is not affiliated with the original author in any way) "The universe is under no obligation to make sense to you." - Neil deGrasse Tyson Author Neil deGrasse Tyson, considered to be the most well known astrophysicist of his time, will help you understand the laws that govern the universe and receive the answers to questions people have been asking themselves since the beginning of time. What is the nature of space and time? How do we fit within the universe? How does the universe fit within us? No one can guide you through these questions better than Neil deGrasse Tyson. P.S. Since most people do not have the time to contemplate the existence of the universe, Astrophysics for People in a Hurry is written in a way that allows people to read through the clear and concise paragraphs during their lunch breaks or while waiting in line. The Time for Thinking is Over! Time for Action! Scroll Up Now and Click on the "Buy now with 1-Click" Button to Download your Copy Right Away! Why Choose Us, Readtrepreneur? ? Highest Quality Summaries ? Delivers Amazing Knowledge ? Awesome Refresher ? Clear And Concise 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.

Bring demonstrations of the principles of nature into the living room, Tyson writes in a lucid, easygoing style that finally makes scientific literacy possible for enthusiasts and those with math and science phobias alike.

The founder of the Foundation for Community Encouragement draws on his counseling experience to lead readers to the spiritual simplicity that lies on the other side of complexity and explains how to cope with the fears and shortcomings of life

SUMMARY - Astrophysics For People In A Hurry By Neil DeGrasse Tyson

ASTROPHYSICS FOR PEOPLE IN A HURRY - Summarized for Busy People

The Pluto Files: The Rise and Fall of America's Favorite Planet

Summary & Analysis: Astrophysics for People in a Hurry by Neil Degrasse Tyson

The Nature of Space and Time

Relativity: The Special and General Theory

In this thought-provoking follow-up to his acclaimed StarTalk book, uber astrophysicist Neil deGrasse Tyson tackles the world's most important philosophical questions about the universe with wit, wisdom, and cutting-edge science. For science geeks, space and physics nerds, and all who want to understand their place in the universe, this enlightening new book from Neil deGrasse Tyson offers a unique take on the mysteries and curiosities of the cosmos, building on rich material from his beloved StarTalk podcast. In these illuminating pages, illustrated with dazzling photos and revealing graphics, Tyson and co-author James Trefl, a renowned physicist and science popularizer, take on the big questions that humanity has been posing for millennia--How did life begin? What is our place in the universe? Are we alone?--and provide answers based on the most current data, observations, and theories. Populated with paradigm-shifting discoveries that help explain the building blocks of astrophysics, this relatable and entertaining book will engage and inspire readers of all ages, bring sophisticated concepts within reach, and offer a window into the complexities of the cosmos, or all who loved National Geographic's StarTalk with Neil deGrasse Tyson, Cosmos: Possible Worlds, and Space Atlas, this new book will take them on more journeys into the wonders of the universe and beyond.

Albert Einstein, a Nobel laureate, has changed the world with his research and theories. He is regarded as the founder of modern physics. Besides 'Relativity,' he worked on Photoelectric effect, Brownian motion, Special relativity, and Mass-Energy equivalence (E=mc2). They reformed the views on time, space and matter. Albert Einstein developed the general theory of 'Relativity.' He published 'Relativity: The Special and the General Theory' in German. Its first English translation was published in 1920. The book deals with the special theory of relativity, the general theory of relativity, and the considerations on the universe as a whole. The book gives an exact insight into the theory of Relativity. It covers, the system of Co-ordinates; The Lorentz Transformation; The experiment of Fizeau; Minkowski's four dimensional space; The Gravitational Field; Gaussian Co-ordinates; The structure of space, and lot many other scientific concepts thus will be highly beneficial to the Readers. A must have book for everyone related to modern physics.

PLEASE NOTE: This is a key takeaways and analysis of the book and NOT the original book. Start Publishing Notes' Summary, Analysis, and Review of Neil deGrasse Tyson's Astrophysics for People in a Hurry includes a summary of the book, a review, analysis & key takeaways, and a detailed "About the Author" section. **PREVIEW:** Neil deGrasse Tyson, a former star, amateur wrestler at Harvard who went on to become an award-winning astrophysicist, might be the most well-known science communicator in the United States since the late Carl Sagan. Tyson, who has served as the director of the Hayden Planetarium in New York City since 1996, had published a dozen books prior to Astrophysics for People in a Hurry; all of them have been aimed at a popular audience. In spite of that, Astrophysics for People in a Hurry is probably his most accessible and scaled-down work to date. In the introduction, Tyson explains that he has written the book for people who are "too busy to absorb the cosmos via classes, textbooks, or documentaries." Given the daunting nature of the subject matter-an astrophysics primer in twelve chapters and 200 pages-one has a reason to be skeptical about how effectively Tyson can convey this material. Tyson himself realizes this but also wants to address the concerns of busy, confused people who have looked heavenward and thought about their place in the universe.

Neil deGrasse Tyson's #1 New York Times best-selling guide to the cosmos, adapted for young readers. From the basics of physics to big questions about the nature of space and time, celebrated astrophysicist and science communicator Neil deGrasse Tyson breaks down the mysteries of the cosmos into bite-sized pieces. Astrophysics for Young People in a Hurry describes the fundamental rules and unknowns of our universe clearly—and with Tyson's characteristic wit, there's a lot of fun thrown in, too. This adaptation by Gregory Mone includes full-color photos, infographics, and extra explanations to make even the trickiest concepts accessible. Building on the wonder inspired by outer space, Astrophysics for Young People in a Hurry introduces an exciting field and the principles of scientific inquiry to young readers.

Summary of Astrophysics for People in a Hurry by Neil DeGrasse Tyson - Conversation Starters

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Space Chronicles: Facing the Ultimate Frontier

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** Our summary is short, simple and pragmatic. It allows you to have the essential ideas of a big book in less than 30 minutes. As you read this summary, you will discover that the universe is full of fascinating, but not very hospitable objects. You will also discover : that you are made of stardust; that gravitation governs the shapes, movements and structure of the universe; that there is an invisible light captured by gigantic telescopes; that studying this light is essential to understanding the universe; that a large part of what composes the universe is known: it is dark matter and dark energy. The cosmos is a captivating place and astrophysics is probably one of the most intriguing fields of science, even for non-scientists. It is at the very heart of humankind's conception of itself and its place in the universe. For a long time confined to stargazing and subordinated to the dogma of the Church, astronomy today reveals a cosmos totally opposed to past ideas. From a single, central and immobile planet around which the cosmos was organized, the Earth has become an insignificant detail, moving, lost in the immensity of the universe. Are you ready for a disconcerting but bewitching walk through the cosmos? "Buy now the summary of this book for the modest price of a cup of coffee!*

Journey from Earth to the outer reaches of the universe with this stunning book about space! You'll encounter bizarre planets, distant stars, and intricate galaxies. From planets and asteroids to black holes and galaxies, every page of this captivating book reveals the secrets behind more than 100 celestial objects. Get ready to explore fun facts and exciting new scientific discoveries! For centuries, the mysteries of space have captured our imaginations. This picture book will illuminate imaginations and spark curious minds to explore the vastness of space. Take your little astronaut on a journey from our planet out into the furthest reaches of the universe! Filled with gorgeous illustrations and incredible photography, young readers will be intrigued by the detailed close-up images of each celestial body. The engaging storybook-style descriptions and simple text shed a light on facts, myths, and key discoveries about the universe. Explore the wonders of our solar system and beyond. This educational book also includes reference pages packed with fascinating information. Journey Through the Vastness of Space Join us on an adventure across the universe, as we rocket to the stars! Discover 100 objects from the universe, arranged from the closest to our planet to the ones the furthest away. Storybook-style text and out-of-this-world pictures make this book perfect for an astronomical bedtime. It's also a fantastic gift for children who can't get enough of space. Grab your spacesuit and put your helmet on! Inside the pages of this adventure book, you'll find: - Beautiful illustrations and incredible photography that showcase the mysteries of space. - Discover 100 remarkable objects in the cosmos. - Engaging storybook-style descriptions that explain key discoveries about the universe. More to Explore Once you've discovered The Mysteries of the Universe, dive into the companion titles from this series from DK Books! The Wonders of Nature explores more than 100 items from the natural world and An Anthology of Intriguing Animals showcases animals around the world.

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Astrophysics is often – with some justification – regarded as incomprehensible without the use of higher mathematics. Consequently, many amateur astronomers miss out on some of the most fascinating aspects of the subject. Astrophysics Is Easy! cuts through the difficult mathematics and explains the basics of astrophysics in accessible terms. Using nothing more than plain arithmetic and simple examples, the workings of the universe are outlined in a straightforward yet detailed and easy-to- grasp manner. The original edition of the book was written over eight years ago, and in that time, advances in observational astronomy have led to new and significant changes to the theories of astrophysics. The new theories will be reflected in both the new and expanded chapters during the next edition. The Time for Thinking is Over! Time for Action! Scroll Up Now and Click on the "Buy now with 1-Click" Button to Get your Copy Delivered to Your Doorstep Right Away! Why Choose Us, Readtrepreneur? ? Highest Quality Summaries Delivers Amazing Knowledge Awesome Refresher Clear And Concise 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/2hOV5Sn

Harvard, only to turn to writing as a vocation. When Olsson got hold of the 1940 letters between the siblings, she found they shared a curiosity about the inception of creative thought - that flash of insight - that Olsson experienced as both a maths student, and later, novelist. Following this thread of connections, The Weil Conjectures explores the lives of Simone and Andr é, the lore and allure of mathematics, and its significance in Olsson's own life.

A History of Astrophysics and Cosmology

Adventures of an Urban Astrophysicist

StarTalk's Guide to Who We Are, How We Got Here, and Where We're Going

StarTalk

Summary of Neil Degrasse Tyson's Astrophysics for People in a Hurry

Build better software with more intuitive, maintainable, scalable, and high-performance Ruby code

This illustrated companion to the popular podcast and National Geographic Channel show is an eye-opening journey for anyone curious about our universe, space, astronomy and the complexities of the cosmos. For decades, beloved astrophysicist Neil deGrasse Tyson has interpreted science with a combination of brainpower and charm that resonates with fans everywhere. This pioneering, provocative book brings together the best of StarTalk, his beloved podcast and television show devoted to solving the most confounding mysteries of Earth, space, and what it means to be human. Filled with brilliant slideshows, vivid photography, and unforgettable quotes from Tyson and his brilliant cohort of science and entertainment luminaries, StarTalk will help answer all of your most pressing questions about our world—from how the brain works to the physics of comic book superheroes. Fun, smart, and laugh-out-loud funny, this book is the perfect guide to everything you ever wanted to know about the universe—and beyond.

“A compelling appeal, at just the right time, for continuing to look up.”—Air & Space America's space program is at a turning point. NASA has ended the space-shuttle program, cutting off its access to space. No astronauts will be launched in an American craft, from American soil, until the 2020s, and NASA may soon find itself eclipsed by other countries' space programs. With his signature wit and thought-provoking insights, Neil deGrasse Tyson—one of our foremost thinkers on all things space—illuminates the past, present, and future of space exploration and brilliantly reminds us why NASA matters now as much as ever. As Tyson reveals, exploring the space frontier can profoundly enrich many aspects of our daily lives, from education systems and the economy to national security and morale. For America to maintain its status as a global leader and a technological innovator, he explains, we must regain our enthusiasm and curiosity about what lies beyond our world. Provocative, humorous, and wonderfully readable, Space Chronicles represents the best of Tyson's recent commentary, including a must-read prologue on NASA and partisan politics. Entertaining on topics that range from scientific literacy to space-travel missteps, Tyson gives us an urgent, clear-eyed, and ultimately inspiring vision for the future.

Over a year on the New York Times bestseller list and more than a million copies sold. The essential universe, from our most celebrated and beloved astrophysicist. What is the nature of space and time? How do we fit within the universe? How does the universe fit within us? There's no better guide through these mind-expanding questions than acclaimed astrophysicist and best-selling author Neil deGrasse Tyson. But today, few of us have time to contemplate the cosmos. So Tyson brings the universe down to Earth succinctly and clearly, with sparkling wit, in tasy chapters consumable anytime and anywhere in your busy day. While you wait for your morning coffee to brew, for the bus, the train, or a plane to arrive, Astrophysics for People in a Hurry will reveal just what you need to be fluent and ready for the next cosmic headlines: from the Big Bang to black holes, from quarks to quantum mechanics, and from the search for planets to the search for life in the universe.

Elevate your Ruby skills to an advanced level by deepening your understanding of the design principles, best practices, and trade-offs involved in implementation approaches to future-proof your Ruby applications key Features:Learn Ruby web application design principles and strategies for databases, security, and testing from a Ruby contributor Understand the design principles behind polished Ruby code and trade-offs between implementation approaches/Use metaprogramming and DSLs to reduce the amount of code needed without decreasing maintainabilityBook Description Anyone striving to become an expert Ruby programmer needs to be able to write maintainable applications. Polished Ruby Programming will help you get better at designing scalable and robust Ruby programs, so that no matter how big the codebase grows, maintaining it will be a breeze. This book takes you on a journey through implementation approaches for many common programming situations, the trade-offs inherent in each approach, and why you may choose to use different approaches in different situations. You'll start by refreshing Ruby fundamentals, such as correctly using core classes, class and method design, variable usage, error handling, and code formatting. Then you'll move on to higher-level programming principles, such as library design, use of metaprogramming and domain-specific languages, and refactoring.

Finally, you'll learn principles specific to web application development, such as how to choose a database and web framework, and how to use advanced security features. By the end of this Ruby programming book, you'll be a well-rounded web developer with a deep understanding of Ruby. While most code examples and principles discussed in the book apply to all Ruby versions, some examples and principles are specific to Ruby 3.0, the latest release at the time of publication. Ruby has a reputation for being easy to learn, but it's not always clear how to use it effectively. Explore the principles behind variable usage and method argument choice/Implement advanced error handling approaches such as exponential backoff/Design extensible libraries and plugin systems in Ruby/Use metaprogramming and DSLs to avoid code redundancy/Implement different approaches to testing and understand their trade-offs/Discover design patterns, refactoring, and optimization with Ruby/Use advanced design principles and advanced web app security/Who this book is for This book is for Ruby programmers who are comfortable in coding with Ruby but want to advance their skills by mastering the deeper principles and best practices behind writing maintainable, scalable, optimized, and well-structured Ruby code. This book won't teach you the basics of Ruby - you'll need intermediate knowledge and practical experience before you can dive in.

An Astrophysical Tour

Death by Black Hole: And Other Cosmic Quandaries

Key Takeaways & Analysis

Based on the Book by Neil deGrasse Tyson

A Life

A Brief Welcome to the Universe

Summary of Astrophysics for People in a Hurry by Neil deGrasse Tyson | Conversation Starters Do you want to know more about the universe, but dont have the time to actually pursue a detailed study? Then Astrophysics for People in a Hurry is exactly the book for you. The book describes the origins of the universe, delves deep into how it functions, and discusses different concepts of physics. Tyson tries to explain these concepts in the most simplified manner with a lot of humor. He also leaves us with just a better sense of understanding of the universe, but also many questions about how to relate with the infinite cosmos with our own human and limited understanding.Astrophysics for People in a Hurry is a literary attempt by astrophysicist Neil deGrasse Tyson to bring the universe to the common people. It is his sixteenth book and was well received by critics. A Brief Look inside: EVERY GOOD BOOK CONTAINS A WORLD FAR DEEPER than the surface of its pages. The characters and their world come alive, and the characters and their world still live on. Conversation Starters is peppered with questions designed to bring us beneath the surface of the page and invite us into the world that lives on. These questions can be used to... Create Hours of Conversation: " Promote an atmosphere of discussion for groups " Foster a deeper understanding of the book " Assist in the study of the book, either individually or corporately " Explore unseen realms of the book as never seen before Disclaimer: This book you are about to enjoy is an independent resource meant to supplement the original book. If you have not yet read the original book, we encourage you to do before purchasing this unofficial Conversation Starter.

Reviews the historical development of all the key areas of modern astrophysics.

Book Summary of Astrophysics for People in a Hurry In Astrophysics for People in a Hurry, Neil deGrasse Tyson takes the reader on a voyage from the beginning of our universe and the big bang to our modern world and the ought to place our existence inside a wider cosmological perspective. Starting from the large bang, we learn how the expansion and cooling of our universe created the conditions for light to travel across the universe. This light, traveling over billions of years permits astrophysicists to check back in time and reconstruct the events since the creation of our universe. In this exploration of our cosmos, Tyson introduces us to Newton's law of gravity and Einstein's theory of relativity theory. While these laws of physics are universal throughout the cosmos and facilitate us perceive the movement of the planets and stars, they additionally open us up to the deeper mysteries of our universe, like matter and dark energy. Although we tend to might understand our universe as huge and empty, Tyson explores the space between galaxies and planets in our own solar system, suggesting that what we find in physics, is just as fascinating to check because the planets and also the stars. For more information click on the BUY BUTT!!!

NATIONAL BESTSELLER "A vivid account of a remarkable life."—The Washington Post In this comprehensive, revelatory biography—fifteen years of interviews and research in the making—historian Jane Sherron De Hart explores the central experiences that crucially shaped Ginsburg's passion for justice, her advocacy for gender equality, and her meticulous jurisprudence. At the heart of her story and abiding beliefs is her Jewish background, specifically the concept of tikkun olam, the Hebrew injunction to "repair the world," with its profound meaning for a young girl who grew up during the Holocaust and World War II. Ruth's journey begins with her mother, who died tragically young but whose intellect inspired her daughter's feminism. It stretches from Ruth's days as a baton wiper at Brooklyn's James Madison High School to Cornell University to Harvard and Columbia Law Schools; to becoming one of the first female law professors in the country and having to fight for equal pay and hide her second pregnancy to avoid losing her job; to becoming the director of the ACLU's Women's Rights Project and arguing momentous anti-sex discrimination cases before the U.S. Supreme Court. All this, even before being nominated in 1993 to become the second woman on the Court, where her crucial decisions and dissents are still making history. Intimately, personally told, this biography offers unprecedented insight into a pioneering life and legal career whose profound mark on American jurisprudence, American society, and our American character and spirit will reverberate deep into the twenty-first century and beyond. REVISED AND UPDATED WITH A NEW AFTERWORD

Lessons from an Astrophysicist

Summary: Astrophysics for People in a Hurry

Polished Ruby Programming

Starry Messenger

Summary Of Astrophysics for People in a Hurry By Neil DeGrasse Tyson

The Other Dark Matter

This book summary and analysis is created for individuals who want to extract the essential contents and are too busy to go through the full version. This book is not intended to replace the original book. Instead, we highly encourage you to buy the full version. What is the true nature of the fabrics of spacetime? Where does humankind belong in the grand scheme of the universe? How exactly is the universe alive within us? Let renowned astrophysicist and acclaimed author Neil deGrasse Tyson guide you through these baffling mysteries of the cosmos. In the modern day, so few people spend their time to contemplate the secrets of the universe. Tyson offers us a closer look at the heavens, with brevity and wit, in twelve comprehensible chapters you can read anytime, anywhere. As you brew your morning coffee or as you wait for your bus ride to work, this book provides just more than enough for you to be fluent in the complex subject of the cosmos. From the Big Bang to supermassive black holes, from general relativity to quantum theory, and from the quest for exoplanets to the quest for extraterrestrial life—Astrophysics for People in a Hurry guarantees to fill you in and bring you up to date. Wait no more, take action and get this book now!

A pocket-style edition based on the New York Times bestseller A Brief Welcome to the Universe offers a breathtaking tour of the cosmos, from planets, stars, and galaxies to black holes and time loops. Bestselling authors and acclaimed astrophysicists Neil deGrasse Tyson, Michael A. Strauss, and J. Richard Gott take readers on an unforgettable journey of exploration to reveal how our universe actually works. Propelling you from our home solar system to the outermost frontiers of space, this book builds your cosmic insight and perspective through a marvelously entertaining narrative. How do stars live and die? What are the prospects of intelligent life elsewhere in the universe? How did the universe begin? Why is it expanding and accelerating? Is our universe alone or part of an infinite multiverse? Exploring these and many other questions, this pocket-friendly book is your passport into the wonders of our evolving cosmos.

New York Times Bestseller A luminous companion to the phenomenal bestseller Astrophysics for People in a Hurry. Astrophysicist Neil deGrasse Tyson has attracted one of the world's largest online followings with his fascinating, widely accessible insights into science and our universe. Now, Tyson invites us to go behind the scenes of his public fame by revealing his correspondence with people across the globe who have sought him out in search of answers. In this hand-picked collection of 101 letters, Tyson draws upon cosmic perspectives to address a vast array of questions about science, faith, philosophy, life, and of course, Pluto. His succinct, opinionated, passionate, and often funny responses reflect his popularity and standing as a leading educator. Tyson's 2017 bestseller Astrophysics for People in a Hurry offered more than one million readers an insightful and accessible understanding of the universe. Tyson's most candid and heartfelt writing yet, Letters from an Astrophysicist introduces us to a newly personal

Are you ready for a simple, straight-forward answer about astrophysics? Then this summary and analysis companion book based on Astrophysics for Busy People by Neil deGrasse Tyson is for you! In Astrophysics for People in a Hurry by Neil deGrasse Tyson takes the reader on a voyage from the beginning of our universe and the big bang to our modern world and the need to place our existence within a wider cosmological perspective. Starting from the big bang, we learn how the expansion and cooling of our universe created the conditions for light to travel across the universe. This light, traveling over billions of years allows astrophysicists to see back in time and reconstruct the events since the creation of our universe. In this exploration of our cosmos, Tyson introduces us to Newton's law of gravity and Einstein's theory of general relativity. While these laws of physics are universal throughout the cosmos and help us understand the movement of the planets and stars, they also open us up to the deeper mysteries of our universe, such as dark matter and dark energy. Although we may perceive our universe as vast and empty, Tyson explores the space between galaxies and planets in our own solar system, suggesting that what we find in physics, is just as interesting to study as the planets and the stars. In this summary and analysis based on Astrophysics for People in a Hurry by Neil deGrasse Tyson, you'll enjoy: A detailed chapter-by-chapter summary that depicts the rapid expansion of the universe, the development of light, and much more! Discussion questions about Neil deGrasse Tyson's work that are sure to engage and excite you! Information about Neil deGrasse Tyson, and a long list of other interesting books he has written! And so much more! BUY TODAY, AND LEARN AS MUCH AS YOU CAN ABOUT OUR WONDERFUL, MYSTICAL UNIVERSE! NOTE TO READERS: This is a summary and analysis companion book that is meant to enhance your reading of Astrophysics for People in a Hurry by Neil deGrasse Tyson. You are strongly encouraged to purchase the original book as well.

Discover the best-kept secrets of space

Accessory to War: The Unspoken Alliance Between Astrophysics and the Military

The Science and Business of Turning Waste into Wealth and Health

Universe Down to Earth

A Pocket-Sized Tour

Cosmic Queries

PLEASE NOTE: This is a summary, analysis and review of the book and not the original book. Neil deGrasse Tyson's witty and accessible book, "Astrophysics for People in a Hurry" offers an easily digestible and simplified view of the forces that created and defined our universe. This SUMOREADS Summary & Analysis offers supplementary material to "Astrophysics for People in a Hurry" to help you distill the key takeaways, review the book's content, and

this planet. Holy crap! Because of the diseases it spreads, we have learned to distance ourselves from our waste, but the long line of engineering marvels we've created to do so—from Roman sewage systems and medieval latrines to the immense, computerized treatment plants we use today—has also done considerable damage to the earth's ecology. Now scientists tell us: we've been wasting our waste. When recycled correctly, this resource, cheap and widely available, can be converted into a sustainable energy source, act as an organic fertilizer, provide effective medicinal therapy for antibiotic-resistant bacterial infection, and much more. In clear and engaging prose that draws on her extensive research and interviews, Lina Zeldovich documents the massive redistribution of nutrients and sanitation inequities across the globe. She profiles the pioneers of poop upcycling, from startups in African villages to innovators in American cities that convert sewage into fertilizer, biogas, crude oil, and even life-saving medicine. She breaks taboos surrounding sewage disposal and shows how hygienic waste repurposing can help battle climate change, reduce acid rain, and eliminate toxic algal blooms. Ultimately, she implores us to use our innate organic power for the greater good. Don't just sit there and let it go to waste.

From the author of *Astrophysics for People in a Hurry* and the host of *Cosmos: A Spacetime Odyssey*, a memoir about growing up and a young man's budding scientific curiosity. This is the absorbing story of Neil deGrasse Tyson's lifelong fascination with the night sky, a restless wonder that began some thirty years ago on the roof of his Bronx apartment building and eventually led him to become the director of the Hayden Planetarium. A unique chronicle of a young man who at one time was both nerd and jock, Tyson's memoir could well inspire other similarly curious youngsters to pursue their dreams. Like many athletic kids he played baseball, won medals in track and swimming, and was captain of his high school wrestling team. But at the same time he was setting up a telescope on winter nights, taking an advanced astronomy course at the Hayden Planetarium, and spending a summer vacation at an astronomy camp in the Mojave Desert. Eventually, his scientific curiosity prevailed, and he went on to graduate in physics from Harvard and to earn a Ph.D. in astrophysics from Columbia. There followed postdoctoral research at Princeton. In 1996, he became the director of the Hayden Planetarium, where some twenty-five years earlier he had been awed by the spectacular vista in the sky theater. Tyson pays tribute to the key teachers and mentors who recognized his precocious interests and abilities, and helped him succeed. He intersperses personal reminiscences with thoughts on scientific literacy, careful science vs. media hype, the possibility that a meteor could someday hit the Earth, dealing with society's racial stereotypes, what science can and cannot say about the existence of God, and many other interesting insights about science, society, and the nature of the universe. Now available in paperback with a new preface and other additions, this engaging memoir will enlighten and inspire an appreciation of astronomy and the wonders of our universe.

The New York Times bestselling tour of the cosmos from three of today's leading astrophysicists *Welcome to the Universe* is a personal guided tour of the cosmos by three of today's leading astrophysicists. Inspired by the enormously popular introductory astronomy course that Neil deGrasse Tyson, Michael A. Strauss, and J. Richard Gott taught together at Princeton, this book covers it all—from planets, stars, and galaxies to black holes, wormholes, and time travel. Describing the latest discoveries in astrophysics, the informative and entertaining narrative propels you from our home solar system to the outermost frontiers of space. How do stars live and die? Why did Pluto lose its planetary status? What are the prospects of intelligent life elsewhere in the universe? How did the universe begin? Why is it expanding and why is its expansion accelerating? Is our universe alone or part of an infinite multiverse? Answering these and many other questions, the authors open your eyes to the wonders of the cosmos, sharing their knowledge of how the universe works. Breathtaking in scope and stunningly illustrated throughout, *Welcome to the Universe* is for

those who hunger for insights into our evolving universe that only world-class astrophysicists can provide. Bringing his cosmic perspective to civilization on Earth, Neil deGrasse Tyson shines new light on the crucial fault lines of our time—war, politics, religion, truth, beauty, gender, and race—in a way that stimulates a deeper sense of unity for us all. In a time when our political and cultural views feel more polarized than ever, Tyson provides a much-needed antidote to so much of what divides us, while making a passionate case for the twin chariots of enlightenment—a cosmic perspective and the rationality of science. After thinking deeply about how science sees the world and about Earth as a planet, the human brain has the capacity to reset and recalibrates life's priorities, shaping the actions we might take in response. No outlook on culture, society, or civilization remains untouched. With crystalline prose, *Starry Messenger* walks us through the scientific palette that sees and paints the world differently. From insights on resolving global conflict to reminders of how precious it is to be alive, Tyson reveals, with warmth and eloquence, an array of brilliant and beautiful truths that apply to us all, informed and enlightened by knowledge of our place in the universe.

On Maths and the Pursuit of the Unknown