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Zen Garcia

Origins: Fourteen Billion Years of Cosmic Evolution Neil deGrasse Tyson,Donald Goldsmith,2022-09-20 "Who can ask for better cosmic tour guides?" —Michio Kaku Our true origins are not only human, or even terrestrial, but in fact cosmic. Drawing on recent scientific breakthroughs and cross-pollination among geology, biology, astrophysics, and cosmology, Origins illuminates the soul-stirring leaps in our understanding of the cosmos. This revised and updated edition features such startling discoveries as the now more than 5,000 detected exoplanets that promise to reveal exciting possibilities for life in the cosmos, and data from a new generation of ground-based and spaceborne observatories that have fundamentally changed what we know about the expanding universe?and maybe even the laws of physics themselves. From the first image of a galaxy's birth to tantalizing evidence of water not only on Mars but also on the asteroid Ceres, as well as on moons of Jupiter and Saturn, coauthors Neil deGrasse Tyson and Donald Goldsmith conduct an exhilarating tour of the cosmos with clarity and exuberance.

The Flat Earth as Key to Decrypt the Book of Enoch Zen Garcia,2015-09-26 Shortly after accepting the flat earth as a model for the world, I decided to revisit the Book of the Courses of the Heavenly Luminaries to see if my new understanding would somehow mirror what Enoch was sharing as the motion of the sun and moon. As I began to read chapters 71-82, I found to my utter amazement that I was able to grasp those passages. I knew then that the vision that the angel Uriel had shown to Enoch could only be deciphered if one were to imagine Enoch's description of the revolution of the sun and the moon. As seen from above the flat circular plane of the earth as described by Isaiah; and that Enoch must have been taken up to perhaps where Polaris is, centered directly above the North Pole, and while looking down at the backdrop of the earth, was instructed on the motions of both the sun and moon. Without such conception, it is in my opinion impossible to apply these descriptions to the model of the earth as a spherical planet.

Every Tool's a Hammer Adam Savage,2020-10-27 In this New York Times bestselling "imperative how-to for creativity" (Nick Offerman), Adam Savage—star of Discovery Channel's Mythbusters—shares his golden rules of creativity, from finding inspiration to following through and successfully making your idea a reality. Every Tool's a Hammer is a chronicle of my life as a maker. It's an exploration of making, but it's also a permission slip of sorts from me to you. Permission to grab hold of the things you're interested in, that fascinate you, and to dive deeper into them to see where they lead you. Through stories from forty-plus years of making and molding, building and breaking, along with the lessons I learned along the way, this book is meant to be a toolbox of problem solving, complete with a shop's worth of notes on the tools, techniques, and materials that I use most often. Things like: In Every Tool There Is a Hammer—don't wait until everything is perfect to begin a project, and if you don't have the exact right tool for a task, just use whatever's handy; Increase Your Loose Tolerance—making is messy and filled with screwups, but that's okay, as creativity is a path with twists and turns and not a straight line to be found; Use More Cooling Fluid—it prolongs the life of blades and bits, and it prevents tool failure, but beyond that it's a reminder to slow down and reduce the friction in your work and relationships; Screw Before You Glue—mechanical fasteners allow you to change and modify a project while glue is forever but sometimes you just need the right glue, so I dig into which ones will do the job with the least harm and best effects. This toolbox also includes lessons from many other incredible makers and creators, including: Jamie Hyneman, Nick Offerman, Pixar director Andrew Stanton, Oscar-winner Guillermo del Toro, artist Tom Sachs, and chef Traci Des Jardins. And if everything goes well, we will hopefully save you a few mistakes (and maybe fingers) as well as help you turn your curiosities into creations. I hope this book serves as "creative rocket fuel" (Ed Helms) to build, make, invent, explore, and—most of

all—enjoy the thrills of being a creator.

Consciousness Explained Daniel C. Dennett,2017-02-07 Brilliant...as audacious as its title....Mr. Dennett's exposition is nothing short of brilliant. --George Johnson, New York Times Book Review Consciousness Explained is a a full-scale exploration of human consciousness. In this landmark book, Daniel Dennett refutes the traditional, commonsense theory of consciousness and presents a new model, based on a wealth of information from the fields of neuroscience, psychology, and artificial intelligence. Our current theories about conscious life-of people, animal, even robots--are transformed by the new perspectives found in this book.

Endless Universe Paul J. Steinhardt,Neil Turok,2007-05-29 Two world-renowned scientists present an audacious new vision of the cosmos that "steals the thunder from the Big Bang theory." —Wall Street Journal The Big Bang theory—widely regarded as the leading explanation for the origin of the universe—posits that space and time sprang into being about 14 billion years ago in a hot, expanding fireball of nearly infinite density. Over the last three decades the theory has been repeatedly revised to address such issues as how galaxies and stars first formed and why the expansion of the universe is speeding up today. Furthermore, an explanation has yet to be found for what caused the Big Bang in the first place. In Endless Universe, Paul J. Steinhardt and Neil Turok, both distinguished theoretical physicists, present a bold new cosmology. Steinhardt and Turok "contend that what we think of as the moment of creation was simply part of an infinite cycle of titanic collisions between our universe and a parallel world" (Discover). They recount the remarkable developments in astronomy, particle physics, and superstring theory that form the basis for their groundbreaking "Cyclic Universe" theory. According to this theory, the Big Bang was not the beginning of time but the bridge to a past filled with endlessly repeating cycles of evolution, each accompanied by the creation of new matter and the formation of new galaxies, stars, and planets. Endless Universe provides answers to longstanding problems with the Big Bang model, while offering a provocative new view of both the past and the future of the cosmos. It is a "theory that could solve the cosmic mystery" (USA Today).

The Theory of Almost Everything Robert Oerter,2006-09-26 There are two scientific theories that, taken together, explain the entire universe. The first, which describes the force of gravity, is widely known: Einstein's General Theory of Relativity. But the theory that explains everything else—the Standard Model of Elementary Particles—is virtually unknown among the general public. In The Theory of Almost Everything, Robert Oerter shows how what were once thought to be separate forces of nature were combined into a single theory by some of the most brilliant minds of the twentieth century. Rich with accessible analogies and lucid prose, The Theory of Almost Everything celebrates a heretofore unsung achievement in human knowledge—and reveals the sublime structure that underlies the world as we know it.

Neutrino Hunters Ray Jayawardhana,2013-12-10 Winner of the Canadian Science Writers Association 2014 Science in Society Book Award A Publishers Weekly Top 10 Science Book of the Season A Book to Watch Out For, The New Yorker's Page-Turner Blog A Los Angeles Times Gift Guide Selection One of the Best Physics Books of 2013, Cocktail Party Physics Blog, Scientific American Detective thriller meets astrophysics in this adventure into neutrinos and the scientists who pursue them The incredibly small bits of matter we call neutrinos may hold the secret to why antimatter is so rare, how mighty stars explode as supernovae, what the universe was like just seconds after the big bang, and even the inner workings of our own planet. For more than eighty years, adventurous minds from around the world have been chasing these ghostly particles, trillions of which pass through our bodies every second. Extremely elusive and difficult to pin down, neutrinos are not unlike the brilliant and eccentric scientists who doggedly pursue them. In Neutrino Hunters, the renowned astrophysicist and award-winning writer Ray

Jayawardhana takes us on a thrilling journey into the shadowy world of neutrinos and the colorful lives of those who seek them. Demystifying particle science along the way, Jayawardhana tells a detective story with cosmic implications—interweaving tales of the sharp-witted theorist Wolfgang Pauli; the troubled genius Ettore Majorana; the harbinger of the atomic age Enrico Fermi; the notorious Cold War defector Bruno Pontecorvo; and the dynamic dream team of Marie and Pierre Curie. Then there are the scientists of today who have caught the neutrino bug, and whose experimental investigations stretch from a working nickel mine in Ontario to a long tunnel through a mountain in central Italy, from a nuclear waste site in New Mexico to a bay on the South China Sea, and from Olympic-size pools deep underground to a gigantic cube of Antarctic ice—called, naturally, IceCube. As Jayawardhana recounts a captivating saga of scientific discovery and celebrates a glorious human quest, he reveals why the next decade of neutrino hunting will redefine how we think about physics, cosmology, and our lives on Earth.

<u>Timelines of Nearly Everything</u> Manjunath.R,2021-07-03 This book takes readers back and forth through time and makes the past accessible to all families, students and the general reader and is an unprecedented collection of a list of events in chronological order and a wealth of informative knowledge about the rise and fall of empires, major scientific breakthroughs, groundbreaking inventions, and monumental moments about everything that has ever happened.

Physics of the Future Michio Kaku,2011-03-15 NATIONAL BESTSELLER • The renowned theoretical physicist and national bestselling author of The God Equation details the developments in computer technology, artificial intelligence, medicine, space travel, and more, that are poised to happen over the next century. "Mind-bending…. [An] alternately fascinating and frightening book." —San Francisco Chronicle Space elevators. Internet-enabled contact lenses. Cars that fly by floating on magnetic fields. This is the stuff of science fiction—it's also daily life in the year 2100. Renowned theoretical physicist Michio Kaku considers how these inventions will affect the world economy, addressing the key questions: Who will have jobs? Which nations will prosper? Kaku interviews three hundred of the world's top scientists—working in their labs on astonishing prototypes. He also takes into account the rigorous scientific principles that regulate how quickly, how safely, and how far technologies can advance. In Physics of the Future, Kaku forecasts a century of earthshaking advances in technology that could make even the last centuries' leaps and bounds seem insignificant.

The Theory of Perfect Learning Nonvikan Karl-Augustt Alahassa,2021-08-17 The perfect learning exists. We mean a learning model that can be generalized, and moreover, that can always fit perfectly the test data, as well as the training data. We have performed in this thesis many experiments that validate this concept in many ways. The tools are given through the chapters that contain our developments. The classical Multilayer Feedforward model has been re-considered and a novel N_k-architecture is proposed to fit any multivariate regression task. This model can easily be augmented to thousands of possible layers without loss of predictive power, and has the potential to overcome our difficulties simultaneously in building a model that has a good fit on the test data, and don't overfit. His hyper-parameters, the learning rate, the batch size, the number of training times (epochs), the size of each layer, the number of hidden layers, all can be chosen experimentally with cross-validation methods. There is a great advantage to build a more powerful model using mixture models properties. They can self-classify many high dimensional data in a few numbers of mixture components. This is also the case of the Shallow Gibbs Network model that we built as a Random Gibbs Network Forest to reach the performance of the Multilayer feedforward Neural Network in a few numbers of parameters, and fewer backpropagation iterations. To make it happens, we propose a novel

optimization framework for our Bayesian Shallow Network, called the {Double Backpropagation Scheme} (DBS) that can also fit perfectly the data with appropriate learning rate, and which is convergent and universally applicable to any Bayesian neural network problem. The contribution of this model is broad. First, it integrates all the advantages of the Potts Model, which is a very rich random partitions model, that we have also modified to propose its Complete Shrinkage version using agglomerative clustering techniques. The model takes also an advantage of Gibbs Fields for its weights precision matrix structure, mainly through Markov Random Fields, and even has five (5) variants structures at the end: the Full-Gibbs, the Sparse-Gibbs, the Between layer Sparse Gibbs which is the B-Sparse Gibbs in a short, the Compound Symmetry Gibbs (CS-Gibbs in short), and the Sparse Compound Symmetry Gibbs (Sparse-CS-Gibbs) model. The Full-Gibbs is mainly to remind fully-connected models, and the other structures are useful to show how the model can be reduced in terms of complexity with sparsity and parsimony. All those models have been experimented, and the results arouse interest in those structures, in a sense that different structures help to reach different results in terms of Mean Squared Error (MSE) and Relative Root Mean Squared Error (RRMSE). For the Shallow Gibbs Network model, we have found the perfect learning framework : it is the $(l_1, \boldsymbol{\zeta}, \epsilon_{dbs})-\textbf{DBS}$ configuration, which is a combination of the \emph{Universal Approximation Theorem}, and the DBS optimization, coupled with the (\emph{dist})-Nearest Neighbor-(h)-Taylor Series-Perfect Multivariate Interpolation (\emph{dist}-NN-(h)-TS-PMI) model [which in turn is a combination of the research of the Nearest Neighborhood for a good Train-Test association, the Taylor Approximation Theorem, and finally the Multivariate Interpolation Method]. It indicates that, with an appropriate number l_1 of neurons on the hidden layer, an optimal number ζ of DBS updates, an optimal DBS learnnig rate ϵ_{dbs}, an optimal distance \emph{dist}$_{opt}$ in the research of the nearest neighbor in the training dataset for each test data $x_i^{\mbox{test}}$, an optimal order h_{opt} of the Taylor approximation for the Perfect Multivariate Interpolation (\emph{dist}-NN-(h)-TS-PMI) model once the {\bfseries DBS} has overfitted the training dataset, the train and the test error converge to zero (0). As the Potts Models and many random Partitions are based on a similarity measure, we open the door to find \emph{sufficient} invariants descriptors in any recognition problem for complex objects such as image; using \emph{metric} learning and invariance descriptor tools, to always reach 100\% accuracy. This is also possible with invariant networks that are also universal approximators. Our work closes the gap between the theory and the practice in artificial intelligence, in a sense that it confirms that it is possible to learn with very small error allowed.

Quantum Field Theory Michio Kaku,1993 The rise of quantum electrodynamics (QED) made possible a number of excellent textbooks on quantum field theory in the 1960s. However, the rise of quantum chromodynamics (QCD) and the Standard Model has made it urgent to have a fully modern textbook for the 1990s and beyond. Building on the foundation of QED, Quantum Field Theory: A Modern Introduction presents a clear and comprehensive discussion of the gauge revolution and the theoretical and experimental evidence which makes the Standard Model the leading theory of subatomic phenomena. The book is divided into three parts: Part I, Fields and Renormalization, lays a solid foundation by presenting canonical quantization, Feynman rules and scattering matrices, and renormalization theory. Part II, Gauge Theory and the Standard Model, focuses on the Standard Model and discusses path integrals, gauge theory, spontaneous symmetry breaking, the renormalization group, and BPHZ quantization. Part III, Non-perturbative Methods and Unification, discusses more advanced methods which now form an essential part of field theory, such as critical phenomena, lattice gauge theory, instantons, supersymmetry, quantum gravity, supergravity, and superstrings.

<u>The Word on College Reading and Writing</u> Carol Burnell,Jaime Wood,Monique Babin,Susan Pesznecker,Nicole Rosevear,2020 An interactive, multimedia text that introduces students to reading and writing at the college level.

Introduction to Atomic and Nuclear Physics Henry Semat,2012-12-06 to Atomic and Nuclear Physics Aerial view of the National Accelerator Laboratory, Batavia, Illinois. (Photograph courtesy of NAL.) Introduction to Atomic and Nuclear Physics HENRY SEMAT Professor Emeritus The City College of the City University of New York JOHN R. ALBRIGHT The Florida State University FIFTH EDITION LONDON NEW YORK CHAPMAN AN D HALL First edition 1939 Fifth edition, first published in the U.S.A. by Holt, Rinehart and Winston, Inc. Fifth edition first published in Great Britain 1973 by Chapman and Hall Ltd 11 New Fetter Lane, London EC4P 4EE Reprinted as a paperback 1978 Reprinted 1979, 1983, 1985 © 1939, 1946, 1954, 1962 by Henry Semat © 1972 by Holt, Rinehart and Winston, Inc. Fletcher & Son Ltd, Norwich ISBN-13: 978-0-412-15670-0 e-ISBN-13: 978-1-4615-9701-8 DOl: 10.1007/978-1-4615-9701-8 All rights reserved. No part of this book may be reprinted, or reproduced or utilized in any form or by any electronic, mechanical, or other means, now known or hereafter invented, including photocopying and recording, or in any information storage and retrieval system, without permission in writing from the Publisher.

Understanding the Universe Manjunath.R,2020-03-17 A Scientific Introduction to Subatomic particles, Alien Intelligence, and Human Space Exploration (For the Cosmically Curious): There are many fundamental questions about the universe that have intrigued scientists, philosophers, and ordinary people for centuries. Here are a few of them: What is the universe made of? This is one of the most basic questions about the universe. Scientists have identified a number of different types of matter and energy, including atoms, subatomic particles, dark matter, and dark energy, but there is still much we don't know. How did the universe begin? The origin of the universe is a subject of intense study and debate. The prevailing theory is the Big Bang, which suggests that the universe began as a singularity and has been expanding ever since. What is the ultimate fate of the universe? Will it keep on expanding indefinitely or will it ultimately come to an end? Some theories suggest that the universe may end in a big rip or a big crunch, while others suggest that it will continue to expand indefinitely. What is the nature of space and time? These are fundamental concepts that are still not fully understood. Some theories suggest that space and time are intertwined and that they can be distorted by the presence of matter and energy. Are there other universes beyond our own? Some theories suggest that our universe may be just one of many in a multiverse. Although this theory is yet hypothetical, it is a fascinating concept that could have significant ramifications for our comprehension of the cosmos. These are just a few of the many fundamental questions about the universe that scientists and philosophers continue to explore. Understanding the Universe: Quarks, Leptons and the Big Bang is a comprehensive exploration of the fundamental principles that govern the universe we live in. From the tiniest particles to the grandest structures in the cosmos, this book takes readers on a journey of discovery through the mysteries of modern physics and cosmology. Starting with an introduction to the basic building blocks of matter, the book delves into the strange world of quarks and leptons, exploring their properties and interactions. It then examines the forces that govern the behavior of matter, including the strong and weak nuclear forces, electromagnetism, and gravity. The book also covers the history of the universe, from its origins in the Big Bang to the present day, and discusses the evolution of stars and galaxies. Readers will gain a deep understanding of the structure of the universe, its expansion, and the mysterious dark matter and dark energy that make up the vast majority of its mass. Filled with engaging examples, clear explanations, and fascinating insights, Understanding the Universe: Quarks, Leptons and the Big Bang is a must-read for anyone interested in the inner workings of the

cosmos. Whether you're a student of physics, a science enthusiast, or simply curious about the universe, this book will provide you with a solid foundation for understanding the world around us.

The Demon-Haunted World Carl Sagan,2011-07-06 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

Accelerating Monte Carlo methods for Bayesian inference in dynamical models Johan Dahlin,2016-03-22 Making decisions and predictions from noisy observations are two important and challenging problems in many areas of society. Some examples of applications are recommendation systems for online shopping and streaming services, connecting genes with certain diseases and modelling climate change. In this thesis, we make use of Bayesian statistics to construct probabilistic models given prior information and historical data, which can be used for decision support and predictions. The main obstacle with this approach is that it often results in mathematical problems lacking analytical solutions. To cope with this, we make use of statistical simulation algorithms known as Monte Carlo methods to approximate the intractable solution. These methods enjoy well-understood statistical properties but are often computational prohibitive to employ. The main contribution of this thesis is the exploration of different strategies for accelerating inference methods based on sequential Monte Carlo (SMC) and Markov chain Monte Carlo (MCMC). That is, strategies for reducing the computational effort while keeping or improving the accuracy. A major part of the thesis is devoted to proposing such strategies for the MCMC method known as the particle Metropolis-Hastings (PMH) algorithm. We investigate two strategies: (i) introducing estimates of the gradient and Hessian of the target to better tailor the algorithm to the problem and (ii) introducing a positive correlation between the point-wise estimates of the target. Furthermore, we propose an algorithm based on the combination of SMC and Gaussian process optimisation, which can provide reasonable estimates of the posterior but with a significant decrease in computational effort compared with PMH. Moreover, we explore the use of sparseness priors for approximate inference in over-parametrised mixed effects models and autoregressive processes. This can potentially be a practical strategy for inference in the big data era. Finally, we propose a general method for increasing the accuracy of the parameter estimates in non-linear state space models by applying a designed input signal. Borde Riksbanken höja eller sänka

reporäntan vid sitt nästa möte för att nå inflationsmålet? Vilka gener är förknippade med en viss sjukdom? Hur kan Netflix och Spotify veta vilka filmer och vilken musik som jag vill lyssna på härnäst? Dessa tre problem är exempel på frågor där statistiska modeller kan vara användbara för att ge hjälp och underlag för beslut. Statistiska modeller kombinerar teoretisk kunskap om exempelvis det svenska ekonomiska systemet med historisk data för att ge prognoser av framtida skeenden. Dessa prognoser kan sedan användas för att utvärdera exempelvis vad som skulle hända med inflationen i Sverige om arbetslösheten sjunker eller hur värdet på mitt pensionssparande förändras när Stockholmsbörsen rasar. Tillämpningar som dessa och många andra gör statistiska modeller viktiga för många delar av samhället. Ett sätt att ta fram statistiska modeller bygger på att kontinuerligt uppdatera en modell allteftersom mer information samlas in. Detta angreppssätt kallas för Bayesiansk statistik och är särskilt användbart när man sedan tidigare har bra insikter i modellen eller tillgång till endast lite historisk data för att bygga modellen. En nackdel med Bayesiansk statistik är att de beräkningar som krävs för att uppdatera modellen med den nya informationen ofta är mycket komplicerade. I sådana situationer kan man istället simulera utfallet från miljontals varianter av modellen och sedan jämföra dessa mot de historiska observationerna som finns till hands. Man kan sedan medelvärdesbilda över de varianter som gav bäst resultat för att på så sätt ta fram en slutlig modell. Det kan därför ibland ta dagar eller veckor för att ta fram en modell. Problemet blir särskilt stort när man använder mer avancerade modeller som skulle kunna ge bättre prognoser men som tar för lång tid för att bygga. I denna avhandling använder vi ett antal olika strategier för att underlätta eller förbättra dessa simuleringar. Vi föreslår exempelvis att ta hänsyn till fler insikter om systemet och därmed minska antalet varianter av modellen som behöver undersökas. Vi kan således redan utesluta vissa modeller eftersom vi har en bra uppfattning om ungefär hur en bra modell ska se ut. Vi kan också förändra simuleringen så att den enklare rör sig mellan olika typer av modeller. På detta sätt utforskas rymden av alla möjliga modeller på ett mer effektivt sätt. Vi föreslår ett antal olika kombinationer och förändringar av befintliga metoder för att snabba upp anpassningen av modellen till observationerna. Vi visar att beräkningstiden i vissa fall kan minska ifrån några dagar till någon timme. Förhoppningsvis kommer detta i framtiden leda till att man i praktiken kan använda mer avancerade modeller som i sin tur resulterar i bättre prognoser och beslut.

Astronomy Andrew Fraknoi,David Morrison,Sidney C. Wolff,2017-12-19 Astronomy is written in clear non-technical language, with the occasional touch of humor and a wide range of clarifying illustrations. It has many analogies drawn from everyday life to help non-science majors appreciate, on their own terms, what our modern exploration of the universe is revealing. The book can be used for either aone-semester or two-semester introductory course (bear in mind, you can customize your version and include only those chapters or sections you will be teaching.) It is made available free of charge in electronic form (and low cost in printed form) to students around the world. If you have ever thrown up your hands in despair over the spiraling cost of astronomy textbooks, you owe your students a good look at this one. Coverage and Scope Astronomy was written, updated, and reviewed by a broad range of astronomers and astronomy educators in a strong community effort. It is designed to meet scope and sequence requirements of introductory astronomy courses nationwide. Chapter 1: Science and the Universe: A Brief Tour Chapter 2: Observing the Sky: The Birth of Astronomy Chapter 3: Orbits and Gravity Chapter 4: Earth, Moon, and Sky Chapter 5: Radiation and Spectra Chapter 6: Astronomical Instruments Chapter 7: Other Worlds: An Introduction to the Solar System Chapter 8: Earth as a Planet Chapter 9: Cratered Worlds Chapter 10: Earthlike Planets: Venus and Mars Chapter 11: The Giant Planets Chapter 12: Rings, Moons, and Pluto Chapter 13: Comets and Asteroids: Debris of the Solar System Chapter 14: Cosmic Samples

and the Origin of the Solar System Chapter 15: The Sun: A Garden-Variety Star Chapter 16: The Sun: A Nuclear Powerhouse Chapter 17: Analyzing Starlight Chapter 18: The Stars: A Celestial Census Chapter 19: Celestial Distances Chapter 20: Between the Stars: Gas and Dust in Space Chapter 21: The Birth of Stars and the Discovery of Planets outside the Solar System Chapter 22: Stars from Adolescence to Old Age Chapter 23: The Death of Stars Chapter 24: Black Holes and Curved Spacetime Chapter 25: The Milky Way Galaxy Chapter 26: Galaxies Chapter 27: Active Galaxies, Quasars, and Supermassive Black Holes Chapter 28: The Evolution and Distribution of Galaxies Chapter 29: The Big Bang Chapter 30: Life in the Universe Appendix A: How to Study for Your Introductory Astronomy Course Appendix B: Astronomy Websites, Pictures, and Apps Appendix C: Scientific Notation Appendix D: Units Used in Science Appendix E: Some Useful Constants for Astronomy Appendix F: Physical and Orbital Data for the Planets Appendix G: Selected Moons of the Planets Appendix H: Upcoming Total Eclipses Appendix I: The Nearest Stars, Brown Dwarfs, and White Dwarfs Appendix J: The Brightest Twenty Stars Appendix K: The Chemical Elements Appendix L: The Constellations Appendix M: Star Charts and Sky Event Resources

A Universe from Nothing Lawrence Maxwell Krauss,2013 This is a provocative account of the astounding new answers to the most basic philosophical question: Where did the universe come from and how will it end?

Physics of the Impossible Michio Kaku,2008-03-11 NATIONAL BESTSELLER • Inspired by the fantastic worlds of Star Trek, Star Wars, and Back to the Future, the renowned theoretical physicist and national bestselling author of The God Equation takes an informed, serious, and often surprising look at what our current understanding of the universe's physical laws may permit in the near and distant future. Teleportation, time machines, force fields, and interstellar space ships—the stuff of science fiction or potentially attainable future technologies? Entertaining, informative, and imaginative, Physics of the Impossible probes the very limits of human ingenuity and scientific possibility.

Mars Up Close Marc Kaufman,2014 National Geographic and science journalist Marc Kaufman combine inside stories, fascinating facts, and eye-popping pictures, some never before seen, of the red planet and NASA's groundbreaking Curiosity mission. Renowned author Kaufman spent two years embedded with the engineers and scientists at NASA's Jet Propulsion Laboratory, cheering on the rover's spine-tingling landing, learning the backstory of anticipated findings, and witnessing the inescapable frustrations that come from operating a $2.5-billion multitasking robot on a planet 35 million miles from Earth. With images never published before, and computer-enhanced with colors that make you want to spend your next vacation on Mars, this is the only book that explains everything, detail by detail and moment by moment, about the most ambitious space expedition the human race has ever undertaken.--Provided by publisher.

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