Hubble Space Telescope 2018 12 X 12 Inch Monthly Square Wall Calendar By Wyman Science Space Technology NASA

Getting the books **Hubble Space Telescope 2018 12 X 12 Inch Monthly Square Wall Calendar By Wyman Science Space Technology NASA** now is not type of inspiring means. You could not on your own going in the same way as book addition or library or borrowing from your associates to entre them. This is an certainly easy means to specifically get guide by on-line. This online message Hubble Space Telescope 2018 12 X 12 Inch Monthly Square Wall Calendar By Wyman Science Space Technology NASA can be one of the options to accompany you in the manner of having extra time.

It will not waste your time. consent me, the e-book will totally atmosphere you extra situation to read. Just invest tiny epoch to door this on-line publication **Hubble Space Telescope 2018 12 X 12 Inch Monthly Square Wall Calendar By Wyman Science Space Technology NASA** as with ease as evaluation them wherever you are now.

Cosmic Dawn - George Rhee 2013-08-13
This book takes the reader on an exploration of the structure and evolution of our universe. The basis for our knowledge is the Big Bang theory of the expanding universe. This book then tells the story of our search for the first stars and galaxies using current and planned telescopes. These telescopes are marvels of technology far removed from Galileo's first telescope but continuing astronomy in his ground breaking spirit. We show the reader how these first stars and galaxies shaped the universe we see today. This story is one of the great scientific adventures of all time.
The World Almanac and Book of Facts 2022 - Sarah Janssen 2021-12-07
A 2021 USA Today Bestseller! Get thousands of facts at your fingertips with this essential resource: business, the arts and pop culture, science and technology, U.S. history and government, world geography, sports, and so much more. The World Almanac® is America’s bestselling reference book of all time, with more than 83 million copies sold. For more than 150 years, this compendium of information has been the authoritative source for school, library, business, and home. The 2022 edition of The World Almanac reviews the biggest events of 2021 and will be your go-to source for questions on any topic in the upcoming year. Praised as a “treasure trove of political, economic, scientific and educational statistics and information” by The Wall Street Journal, The World Almanac and Book of Facts will answer all of your trivia needs effortlessly. Features include: Special Feature: Coronavirus Status Report: A special section provides up-to-the-minute information about the world’s largest public health crisis in at least a century. Statistical data and graphics across dozens of chapters show how the pandemic continues to affect the economy, work, family life, education, and culture. Special Feature: 20 Years in Afghanistan: The World Almanac provides history, data, and other context for the end of America's longest war and the future of Afghanistan and its people. 2021—Top 10 News Topics: The editors of The World Almanac list the top stories that held the world's attention in 2021. 2021—Year in Sports: Hundreds of pages of trivia and statistics that are essential for any sports fan, featuring complete

coverage of the Olympic Games in Tokyo and the sports world's ongoing adaptations to the coronavirus pandemic, and much more. 2021—Year in Pictures: Striking full-color images from around the world in 2021, covering news, entertainment, science, and sports. 2021—Offbeat News Stories: The World Almanac editors found some of the strangest news stories of the year. World Almanac Editors' Picks: Time Capsule: The World Almanac lists the items that most came to symbolize the year 2021, from news and sports to pop culture. World Almanac Editors' Picks: Memorable Recent Sports Scandals: From a trash-can banging, sign-stealing scandal to the doping of horses and humans, World Almanac editors select some of the sports world's biggest black marks from the last 20 years. The World at a Glance: This annual feature of The World Almanac provides a quick look at the surprising stats and curious facts that define the changing world. The Biden Administration: Complete coverage of the presidential transition in Washington, DC, including cabinet-level leadership and the filling of other key administration roles. Other New Highlights: First data available from the 2020 Census, congressional appropriation and redistricting, and much more.

Accessory to War: The Unspoken Alliance Between Astrophysics and the Military - Neil deGrasse Tyson 2018-09-11

“Extraordinary.... A feast of history, an expert tour through thousands of years of war and conquest.” —Jennifer Carson, New York Times Book Review In this far-reaching foray into the millennia-long relationship between science and military power, acclaimed astrophysicist Neil deGrasse Tyson and co-author Avis Lang examine how the methods and tools of astrophysics have been enlisted in the service of war. Spanning early celestial navigation to satellite-enabled warfare, Accessory to War is a richly researched and provocative examination of the intersection of science, technology, industry, and power that will introduce Tyson’s millions of fans to yet another dimension of how the universe has shaped our lives and our world.

General Knowledge - YCT Expert Team

2022-23 RRB General Knowledge Chapter-wise Solved Papers

Mathematics and Art - Lynn Gamwell 2016

This is a cultural history of mathematics and art, from antiquity to the present. Mathematicians and artists have long been on a quest to understand the physical world they see before them and the abstract objects they know by thought alone. Taking readers on a tour of the practice of mathematics and the philosophical ideas that drive the discipline, Lynn Gamwell points out the important ways mathematical concepts have been expressed by artists. Sumptuous illustrations of artworks and cogent math diagrams are featured in Gamwell's comprehensive exploration. Gamwell begins by describing mathematics from antiquity to the Enlightenment, including Greek, Islamic, and Asian mathematics. Then focusing on modern culture, Gamwell traces mathematicians' search for the foundations of their science, such as David Hilbert's conception of mathematics as an arrangement of meaning-free signs, as well as artists' search for the essence of their craft, such as Aleksandr Rodchenko's monochrome paintings. She shows that self-reflection is inherent to the practice of both modern mathematics and art, and that this introspection points to a deep resonance between the two fields: Kurt Gödel posed questions about the nature of mathematics in the language of mathematics and Jasper Johns asked "What is art?" in the vocabulary of art. Throughout, Gamwell describes the personalities and cultural environments of a multitude of mathematicians and artists, from Gottlob Frege and Benoît Mandelbrot to Max Bill and Xu Bing. Mathematics and Art demonstrates how mathematical ideas are embodied in the visual arts and will enlighten all who are interested in the complex intellectual pursuits, personalities, and cultural settings that connect these vast disciplines.

National Geographic Illustrated Guide to Nature - National Geographic Society (U.S.) 2013

A visual introduction to nature that doubles as a field guide explores constellations and weather, rocks and minerals, plants and wildflowers, and trees and shrubs, and includes pointers, pictures, and identification tips.

A History of Optical Telescopes in Astronomy - Wilson Wall

2018-10-01

This book is uniquely about the relationship between the optical telescope and astronomy as they developed together. It covers the time between the telescope's pivotal invention in the 1600's up to the modern era of space-based telescopes. Over the intervening centuries, there were huge improvements in the optical resolution of telescopes, along with changes in their positioning and nature of application that forever altered the course of astronomy. For a long time, the field was an exclusive club for self-motivated stargazers who could afford to build their own telescopes. Many of these leisure-time scholars left their mark by virtue of their meticulous observations and record keeping. Although they would now be considered amateurs, these figures and their contributions were pivotal and are covered in this book alongside professionals, for the first time giving a complete picture of the history of telescopic science.

Asymmetric Planetary Nebulae VII - Quentin A. Parker 2019-03-21

This book contains the best and most up-to-date contributions in the field of late stage stellar evolution, as presented at the APNVII conference in Hong Kong in December 2017. A total of 60 scientists from 20 countries gathered to present, listen, interact and discuss the most current issues and problems in planetary nebulae and related objects research. The emphasis of this influential series of meetings, which was the seventh occasion over the last 20 years, has always been on the hypothesized and observed physical shaping mechanisms of the ejected nebulae that have such wonderful and intriguing forms. This special Galaxies conference issue of fully refereed contributions brings together a representative compilation of the meeting presentations in paper form. It captures the current “snap shot” status of this research field in some real sense. Such proceedings are well received and can be used as a reference material by both participants and all others working in the field for years to come.

The World Almanac and Book of Facts 2021 - Sarah Janssen 2020-12-15

#1 New York Times Bestseller! Get thousands of facts at your fingertips with this essential resource: business, the arts and pop culture, science and technology, U.S. history and government, world geography, sports, and so much more. The World Almanac® is America’s bestselling reference book of all time, with more than 83 million copies sold. For more than 150 years, this compendium of information has been the authoritative source for school, library, business, and home. The 2021 edition of The World Almanac reviews the biggest events of 2020 and will be your go-to source for questions on any topic in the upcoming year. Praised as a “treasure trove of political, economic, scientific and educational statistics and information” by The Wall Street Journal, The World Almanac and Book of Facts will answer all of your trivia needs effortlessly. Features include: 2020 Election Results: The World Almanac provides a comprehensive look at the entire 2020 election process, from the roller coaster of the early primaries to state and county presidential voting results and coverage of House, Senate, and gubernatorial races. 2020 Coronavirus Pandemic: A special section provides up-to-the-minute information about the world’s largest public health crisis in at least a century, providing information on what scientists know about the virus so far—and what still needs to be learned—along with an update on vaccine progress, statistical data and graphics, and useful practical measures for readers. World Almanac Editors' Picks: Memorable Summer Olympic Moments: The World Almanac took a look back at past editions of the Olympic Summer Games to create a highlight reel of memorable moments to tide sports fans over until Tokyo in 2021. 2020—Top 10 News Topics: The editors of The World Almanac list the top stories that held the world's attention in 2020. 2020—Year in Sports: Hundreds of pages of trivia and statistics that are essential for any sports fan, featuring complete coverage of the sports world’s response to the COVID-19 pandemic, a preview of the Olympic Games in Tokyo, and much more. 2020—Year in Pictures: Striking full-color images from around the world in 2020, covering news, entertainment, science, and sports. 2020—Offbeat News Stories: The World Almanac editors found some of the strangest news stories of the year. World Almanac Editors' Picks: Time Capsule: The World Almanac lists the items that most came to symbolize the year 2020, from news and sports to pop culture. The World at a Glance: This annual feature of The World Almanac provides a

quick look at the surprising stats and curious facts that define the changing world. Statistical Spotlight: This annual feature highlights statistics relevant to the biggest stories of the year. These data provide context to give readers a fresh perspective on important issues. Other New Highlights: Newly available statistics on how the COVID-19 pandemic and widespread shutdowns have affected businesses, air quality, employment, education, families' living situations and access to food, and much more.

1000 Most Probable IAS Prelim MCQs with additional 500 Previous Year Questions - Ashish Malik 2020-08-13

1000 Most Probable IAS Prelim MCQs with additional 500 Previous Year Questions is one of its kind Book which is POWER PACKED with Original & Prelim Style & Difficulty Level Questions further supported with Latest Schemes, Bill, Acts, Events (Current Affairs) Questions. The salient features of the book are: • The book is divided into 3 Units – Mind Maps; Question Bank; Previous Year Questions • The Unit 1 provides Collection of 1000 Most Probable Questions divided into 8 sections as asked in the final exam. • Includes MCQs an Latest Policies, Schemes, Bills, Act, Agreements, Meets etc. • Questions designed on exact difficulty level of IAS Prelim Exam. • All the questions are fully solved with detailed explanations. • The Unit 2 provides Quick Revision Mind Maps to provide useful inputs for the Prelim Exam. • The Unit 3 provides Includes Errorless Solutions to revisions 5 Year IAS Prelim Questions. • The Book is the most authentic source of newly created MCQs available for IAS Prelim Exam

General Studies Paper 1 & 2 IAS Prelims 9 Year-wise Solved Papers (2019 - 11) - Disha Experts 2019-09-02

ThompsonCourierRakeRegister_2018-04-26_all.pdf - 2018-04-26 ThompsonCourierRakeRegister_2018-04-26_all.pdf

GO TO CLAT Guide with Passage based Questions - Disha Experts 2020-03-19

Think Like a Rocket Scientist - Ozan Varol 2020-04-14

* One of Inc.com's "6 Books You Need to Read in 2020 (According to Bill Gates, Satya Nadella, and Adam Grant)"* Adam Grant's # 1 pick of his top 20 books of 2020* One of 6 Groundbreaking Books of Spring 2020 (according to Malcolm Gladwell, Susan Cain, Dan Pink, and Adam Grant). A former rocket scientist reveals the habits, ideas, and strategies that will empower you to turn the seemingly impossible into the possible. Rocket science is often celebrated as the ultimate triumph of technology. But it's not. Rather, it's the apex of a certain thought process -- a way to imagine the unimaginable and solve the unsolvable. It's the same thought process that enabled Neil Armstrong to take his giant leap for mankind, that allows spacecraft to travel millions of miles through outer space and land on a precise spot, and that brings us closer to colonizing other planets. Fortunately, you don't have to be a rocket scientist to think like one. In this accessible and practical book, Ozan Varol reveals nine simple strategies from rocket science that you can use to make your own giant leaps in work and life -- whether it's landing your dream job, accelerating your business, learning a new skill, or creating the next breakthrough product. Today, thinking like a rocket scientist is a necessity. We all encounter complex and unfamiliar problems in our lives. Those who can tackle these problems -- without clear guidelines and with the clock ticking -- enjoy an extraordinary advantage. Think Like a Rocket Scientist will inspire you to take your own moonshot and enable you to achieve liftoff.

Hubble Space Telescope, The - Allan Morey 2017-08-01

The Hubble Space Telescope is a lens for discovering the hidden secrets of outer space. The tool has zoomed in on unknown galaxies! This book gives young readers a close-up of the Hubble Space Telescope, showing off its mirrors, cameras, solar panels, and more.

Our Universe - Giles Sparrow 2017-12-15

Your readers will take a thrilling and mind-boggling voyage of discovery throughout the universe with this information-packed and gorgeously illustrated volume. And when we say "the universe," we mean all of space and time and all that is contained within them, including planets, moons, stars, galaxies, matter, and energy. So this is a grand tour indeed,

encompassing the birth of the universe with the Big Bang, hypotheses on its eventual demise, and fascinating conjectures about its shape and possible alternate "mulitiverses." Also examined is humanity's evolving understanding of the universe and the latest discoveries. Always front and center, however, are the universe's many marvels and wonders, all the heavenly bodies, celestial objects, and mind-blowing phenomena that comprise existence past, present, and future.

Flat Space Cosmology - Eugene Terry Tatum 2021-06-15

This compilation based upon recent peer-reviewed journal publications encapsulates how the Flat Space Cosmology model (FSC) has become the primary competitor to the inflationary standard model of cosmology. New ideas concerning black holes, dark energy and dark matter are presented and shown to correlate extremely well with astronomical observations. Anyone who follows the fast-changing science of cosmology, has an interest in the latest developments, and would like to know how it is that our universe appears to follow equations one would ordinarily expect for a time-reversed black hole (!), may find this book to be fascinating. Cosmology is the study of how the universe has changed over the great span of time (roughly 14 billion years). Later centuries will look back upon the period from 1990-2030 as a ‘Golden Age’ of theoretical and observational cosmology. It is highly likely that we are on the verge of a deeper understanding of the most mysterious energy (‘dark energy’) and matter (‘dark matter’) comprising the majority of energy and matter in the universe. Some of the material presented in this book is on the cutting edge of dark energy and dark matter theoretical work. This book summarizes, for the first time, the groundbreaking publications of two cosmologists, one from the United States and the other from India, from 2015 thru 2020. During this highly productive period, the authors stealthily published their papers in six different peer-reviewed scientific journals, so that the model could be quietly explored in all aspects before bringing it all together in a single book. This is that book!

UPSC IAS Prelims Paper 1 & 2 General Studies 10 Year-wise Solved Papers (2020 - 11) 2nd Edition - Disha Experts

Solar Planetary Systems - Asit B. Bhattacharya 2016-11-25

The authors have put forth great efforts in gathering present day knowledge about different objects within our solar system and universe. This book features the most current information on the subject with information acquired from noted scientists in this area. The main objective is to convey the importance of the subject and provide detailed information on the physical makeup of our planetary system and technologies used for research. Information on educational projects has also been included in the Radio Astronomy chapters.This information is a real plus for students and educators considering a career in Planetary Science or for increasing their knowledge about our planetary system.

Truth Seeker - Warren M. Mueller 2019-05-07

Have you ever wondered why humans think and act the way we do? This book explores how we are wired and the limitations and biases of the way we are designed. It also explores the convergence of science and the Bible based on recent discoveries. It then develops models that synthesis and harmonize this information to explain the meaning and purpose of being human.

The New Frontiers of Space - Stefania Paladini 2019-08-06

There are few industries in today’s world as dynamic and dramatically changing as the space sector, with new ventures and initiatives being announced on a daily basis. As well as emerging countries improving their launching and manufacturing capabilities, private actors are beginning to join public bodies in the space race, and participating in what is frequently being referred to as the new space era. With fantastic opportunities arising for business and economics, this book provides a comprehensive overview of the space sector, exploring recent initiatives, and the most important areas of investment in the industry, including emerging fields of activities such as asteroid mining and space tourism. It also addresses traditional and non-traditional security issues in the sector, together with discussing their legal implications. This interdisciplinary book provides insights for practitioners and researchers alike, particularly those involved in technology and innovation management, emerging markets, international relations, and security

studies.

Space - Pomegranate Communications, Inc 1998-03

Enterprise Risk and Opportunity Management - Allan S. Benjamin 2017-02-06

Risk management strategy for the pioneering technological sector Enterprise Risk and Opportunity Management provides much-needed guidance tailored specifically to the technological sector. While most enterprise risk management guides are written for traditional businesses and finance firms, this book translates effective enterprise risk and opportunity management (EROM) principles into strategies and practices that work for government, nonprofit, and for-profit organizations in the technological space. Originally designed for noncommercial pioneering enterprises like NASA, an entire chapter is now devoted toward applying the methods to profit-making technological enterprises. A 40-year veteran of the tech sector, Dr. Allan Benjamin outlines risk management strategies for organizations in which the advancement and integration of science and technology within complex systems is necessary for accomplishment of the mission. Commercial EROM strategies do not translate directly when the development and implementation of risky technologies is the organization's primary objective, and clumsy or near-sighted implementation can easily cripple progress. This book provides authoritative guidance tailored to the sector's specialized needs. Maximize opportunity while effectively managing risk Understand the core principles of the technological EROM approach and its interfaces with the management of the organization Comprehend the intricacies of aggregating risks and opportunities from lower to higher levels of the organization Gain expert insights specific to the technology sector Mitigate and control the risk that comes with pursuing discovery In practice, EROM in this sector involves working with mostly qualitative data, and is characterized by high uncertainty. Managing risk without handicapping the organization requires a specific set of adjustments to traditional EROM, and a more nuanced approach to the idea of "acceptable risk. Balance is key in technological EROM, and Enterprise Risk and Opportunity Management provides foundational guidance, real-world strategy, and enlightening examples for getting it right.

Hubble in Space - 2018-04-15

Hubble Images from Space: a Virtual Tour is a curated book of images from the Hubble telescope collected using space-based instruments from 1990 to 2017. This amazing selection contains new images of space and classic Hubble favorites. All the major players of space are represented in this colorful array of images: planets, moons, comets, exoplanets, solar systems, stars, supernovas, the Milky Way, galaxies, black wholes, nebulae, and more. Experience the near and far of our universe, evidence of its primordial beginnings, its vastness, and a great variety of evidence of stellar and galactic evolution through these awe inspiring colorful images.

Extremes - Duncan Needham 2019-03-07

Essays by leading intellectuals and public figures explore extreme events, environments, and achievements.

The World Almanac and Book of Facts 2020 - Sarah Janssen 2019-12-10

Get thousands of facts at your fingertips with this essential resource. The World Almanac® and Book of Facts is America’s best-selling reference book of all time, with more than 82 million copies sold. For more than 150 years, this compendium of information has been the authoritative source for all your entertainment, reference, and learning needs. The 2020 edition of The World Almanac reviews the biggest events of 2019 and will be your go-to source for questions on any topic in the upcoming year. Praised as a “treasure trove of political, economic, scientific and educational statistics and information” by The Wall Street Journal, The World Almanac and Book of Facts will answer all of your trivia needs effortlessly—from history and sports to geography, pop culture, and much more. Features include: Decade in Review: As the ‘teens’ decade closes, take a look at the highlights, low points, and everything-in-between of the past 10 years. From the introduction of Obamacare and iPads in 2010 to “Old Town Road” and the immigration policy debate in 2019, The World Almanac provides a recap of events and puts into perspective just how much has—and hasn’t—changed in the last 10

years. 2020 Election Preview: The World Almanac provides a comprehensive look at the entire 2020 election process, including a calendar of state primaries and caucuses. Also includes 2019 election results for governors' seats and special congressional elections. World Almanac Editors' Picks: Never Say Die: With Tiger Woods achieving the seemingly impossible in 2019 with his 15th major title—his first Masters win in 14 years—the editors list their favorite major comeback moments from athletes across the sports universe. The World at a Glance: This annual feature of The World Almanac provides a quick look at the surprising stats and curious facts that define the changing world. Statistical Spotlight: A popular annual graphic feature highlights statistics relevant to the biggest news of the year. These data visualizations provide important context and new perspectives to give readers a fresh angle on key issues. The Year in Review: The World Almanac takes a look back at 2019 while providing all the information you'll need in 2020. 2019—Top 10 News Topics: The editors of The World Almanac list the top stories that held the world's attention in 2019. 2019—Year in Sports: Hundreds of pages of trivia and statistics that are essential for any sports fan, featuring coverage of the women's World Cup soccer tournament; a preview of the upcoming 2020 Olympic Games in Tokyo, Japan; the World Series, improved MLB player stats, and much more. 2019—Year in Pictures: Striking full-color images from around the world in 2019, covering news, entertainment, science, and sports. 2019—Offbeat News Stories: The World Almanac editors select some of the most unusual news stories of the year. World Almanac Editors' Picks: Time Capsule: The World Almanac lists the items that most came to symbolize the year 2019, from news and sports to pop culture. New Sections: Reorganized chapters on "Food and Agriculture," "Educational Statistics," and "Colleges and Universities" make it easier to find information about subjects like nutrition, student loans, a directory of colleges, and much more. Other New Highlights: New statistics on income tax reform, top-grossing movies, biggest YouTube channels, religious populations in the U.S. and worldwide, and much more.

Star-Formation Rates of Galaxies - Andreas Zezas 2021-04-29

Star-formation is one of the key processes that shape the current state and evolution of galaxies. This volume provides a comprehensive presentation of the different methods used to measure the intensity of recent or on-going star-forming activity in galaxies, discussing their advantages and complications in detail. It includes a thorough overview of the theoretical underpinnings of star-formation rate indicators, including topics such as stellar evolution and stellar spectra, the stellar initial mass function, and the physical conditions in the interstellar medium. The authors bring together in one place detailed and comparative discussions of traditional and new star-formation rate indicators, star-formation rate measurements in different spatial scales, and comparisons of star-formation rate indicators probing different stellar populations, along with the corresponding theoretical background. This is a useful reference for students and researchers working in the field of extragalactic astrophysics and studying star-formation in local and higher-redshift galaxies.

Space Science and Public Engagement - Amy Paige Kaminski 2021-06-04

Space Science and Public Engagement: 21st Century Perspectives and Opportunities critically examines the many dimensions of public engagement with space science by exploring case studies that show a spectrum of public engagement formats, ranging from the space science community's efforts to communicate developments to the public, to citizenry attempting to engage with space science issues. It addresses why public engagement is important to space science experts, what approaches they take, how public engagement varies locally, nationally and internationally, and what roles "non-experts" have played in shaping space science. Space scientists, outreach specialists in various scientific disciplines, policymakers and citizens interested in space science will find great insights in this book that will help inform their future engagement strategies. Critically examines how expert organizations and the space science community have sought to bring space science to the public Examines how the public has responded, and in some cases self-organized, to opportunities to contribute to space science Outlines future

engagement interests and possibilities

Cosmological Inflation, Dark Matter and Dark Energy - Kazuharu Bamba 2019-11-14

Various cosmological observations support not only cosmological inflation in the early universe, which is also known as exponential cosmic expansion, but also that the expansion of the late-time universe is accelerating. To explain this phenomenon, the existence of dark energy is proposed. In addition, according to the rotation curve of galaxies, the existence of dark matter, which does not shine, is also suggested. If primordial gravitational waves are detected in the future, the mechanism for realizing inflation can be revealed. Moreover, there exist two main candidates for dark matter. The first is a new particle, the existence of which is predicted in particle physics. The second is an astrophysical object which is not found by electromagnetic waves. Furthermore, there are two representative approaches to account for the accelerated expansion of the current universe. One is to assume the unknown dark energy in general relativity. The other is to extend the gravity theory to large scales. Investigation of the origins of inflation, dark matter, and dark energy is one of the most fundamental problems in modern physics and cosmology. The purpose of this book is to explore the physics and cosmology of inflation, dark matter, and dark energy.

GO TO NDA/ NA Guide for General Science -

Modified Gravity and Cosmology - Emmanuel N. Saridakis 2021-12-10

With a focus on modified gravity this book presents a review of the recent developments in the fields of gravity and cosmology, presenting the state of the art, high-lighting the open problems, and outlining the directions of future research. General Relativity and the ΛCDM framework are currently the standard lore and constitute the concordance paradigm of cosmology. Nevertheless, long-standing open theoretical issues, as well as possible new observational ones arising from the explosive development of cosmology in the last two decades, offer the motivation and lead a large amount of research to be devoted in constructing various extensions and modifications. In this review all extended theories and scenarios are first examined under the light of theoretical consistency, and are then applied in various geometrical backgrounds, such as the cosmological and the spherical symmetric ones. Their predictions at both the background and perturbation levels, and concerning cosmology at early, intermediate and late times, are then confronted with the huge amount of observational data that astrophysics and cosmology has been able to offer in the last two decades. Theories, scenarios and models that successfully and efficiently pass the above steps are classified as viable and are candidates for the description of Nature, allowing readers to get a clear overview of the state of the art and where the field of modified gravity is likely to go. This work was performed in the framework of the COST European Action “Cosmology and Astrophysics Network for Theoretical Advances and Training Actions” - CANTATA.

Welcome to the Universe - Neil deGrasse Tyson 2016-09-12

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.

Solar System - Thomas Hockey 2021-08-20
Combining the latest astronomical results with a historical perspective, Solar System: Between Fire and Ice takes you on a fabulous tour of our intriguing Solar System. Not content with a conventional discourse restricted to the major and minor bodies, astronomers Hockey, Bartlett, and Boice venture beyond the limits of our system to look at exoplanets and to consider future trends in space exploration and tourism. They discuss not only what scientists know about planets, asteroids, and comets but how the discoveries were made. With extensive teaching experience, their accessible prose clearly explains essential physical concepts. Lavishly illustrated as well as carefully researched, Solar System: Between Fire and Ice delights the eyes as well as feeding the mind. Detailed appendices provide additional technical data and resources for your own on-line voyage of discovery. Whether you are an educated layperson, student, teacher, amateur astronomer, or merely curious, you will come away having learned the most up-to-date knowledge and enjoyed the process. The authors bring a unique perspective to this subject, combining their years of experience in research, teaching, and history of planetary science. Prof. Thomas Hockey is a professor of astronomy, specializing in planetary science and the history of science. Dr. Jennifer Bartlett is an astronomer with a forte in dynamical motions of asteroids with liberal arts teaching experience. Dr. Daniel Boice is an active research astronomer in planetary science, especially comets, with considerable teaching experience. "In the 1980s and 90s the Viking and Voyager missions provided droves of exciting information, generating a new level of public interest. Textbooks were rewritten and scientists worked to understand the data during mission poor period that followed. In recent times, however, we have entered a new era. There has been a multinational effort to expand our knowledge of the Solar System. Data from these missions has been freely shared and has again raised the level of public interest. Within this era of renewed interest, it is appropriate, as is done in this book, to provide the public with an effort to present an integrated view of our Solar System and questions that the discovery of extrasolar planets have raised with regard to the Solar System as a whole." Professor Reta Beebe, recipient of NASA’s Exceptional Public Service Medal "I understand this book to be aimed at a general audience, but I can also see its use as a text in astronomy classes, especially in a community school or situations where students typically resist reading the textbook. The writing is light and entertaining, and will engage students, yet it thoroughly covers all the basic concepts of a typical Astro 101 class." - Dr. Katy Garmany, winner of the American Astronomical Society’s Annie J. Cannon Award.
12 Years CLAT & AILET (2008-19) Topic-wise Solved Papers 3rd Edition - Disha Experts 2019-08-04

Interdisciplinary Thinking for Schools: Ethical Dilemmas MYP 4 & 5 - Dr. Meredith J Harbord 2020-09-28
Interdisciplinary Thinking for Schools: Ethical Dilemmas MYP 4 & 5 continues on from Interdisciplinary Thinking for Schools: Ethical Dilemmas MYP 1, 2 & 3 and like the first book it is not your average textbook resource. Innovative ethical design projects illustrated with spectacular artwork will connect students to exciting and purposeful learning. Rich primary research includes interviews with the following visionaries: Alberto Alessi, Astronomer Royal Martin Rees, Dr. Jane Goodall, Jared Della Valle and the Stephanie Alexander Kitchen Garden Foundation. The interdisciplinary units have been written with a focus on creativity, critical thinking and exploration of embedded ethical dilemmas. Our strategies support the growth of an innovative and student-centered curriculum to generate real world, sustainable solutions to problems in keeping with the IB MYP philosophy. The authors Dr. Meredith J Harbord and Sara Riaz Khan, are two experienced MYP design teachers whose approach advocates respect for oneself, the community and the world.
Horizons: Exploring the Universe - Michael A. Seeds 2016-09-14
The 14th Edition of HORIZONS: EXPLORING THE UNIVERSE is fully updated with the latest astronomy discoveries and online resources to meet the needs of today's students. The unique and compelling stars-first organization allows students to see that the planets of our solar system

are a natural byproduct of star formation. Focusing on two central questions -- What are we? and How Do We Know? -- Seeds and Backman help students understand their place in the universe and how scientists work. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

On-Orbit Servicing: Next Generation of Space Activities - Annette Froehlich 2020-09-07

This book shares a range of new and diverse insights on On-Orbit Servicing (OOS), and examines its implications especially from political, legal, economic, and security perspectives. OSS has been evolving rapidly and presents both challenges and opportunities, such as in-space repairs, refuelling, refurbishment of spacecraft and servicing satellites, which could play a critical role in extending satellite lifecycles, while also representing a valuable next step in debris mitigation. At the same time, many legal questions have arisen in connection with OOS: the need to prevent hostile actions under the pretext of OSS; the distinction between governmental and non-governmental OOS operators; the status of re-worked and recycled space objects; the issue of control in terms of operations performed in orbit, i.e., in the international sphere; the status of objects manufactured in orbit and applicable law, including liability and registration; and the impacts on insurance law and risk management. Finally, the book examines the implications of OOS for emerging space actors in the Global South, and recommends a paradigm shift to help developing countries fully recognise the necessity and urgency of being involved in discussions on OSS, as opposed to leaving it up to the developed space actors. This book will be of great interest to practitioners, academics, and students working in the space sector and related fields.

Touch the Universe - Noreen Grice 2002-01

This book is an innovative and unique astronomy book. It is a combination of Braille and large-print captions that face 14 pages of Hubble Space Telescope photos with embossed shapes that represent various astronomical objects such as planets, stars and jets of gas streaming into space.

Yearbook on Space Policy 2017 - Edward Burger 2019-02-12

The book describes the recent trends in space policy and the space sector overall. While maintaining a global scope with a European perspective, it links space policy with other policy areas, highlights major events, and provides insights on the latest data. The Yearbook includes the proceedings of ESPI's 12th Autumn Conference, which discussed the growing importance of Security in Outer Space and the stakes for civilian space programmes in the public and private sectors. Bringing together satellite operators, SMEs, European and American institutions, and think tanks, the Autumn Conference served as platform for fresh insights on security in outer space and the potential of transatlantic relations to address its challenges. The Yearbook also includes executive summaries of ESPI's work in 2017 as well as ESPI's 2017 Executive Briefs, covering topics such as suborbital spaceflight, super heavy lift launch vehicles, collaboration with China, and the delimitation of outer space. All in all, the book gives a detailed review of space policy developments worldwide, contextualised with information about national-level space industries and activity and broader political and economic conditions. The readership is expected to include the staff of space agencies, the space industry, and the space law and policy research community.

Explore Science -