

Space Observatory

Robert Zimmerman

The Last of the Great Observatories George H. Rieke, 2021-11-09 The Spitzer Space Observatory, originally known as the Space Infrared Telescope Facility (SIRTF), is the last of the four "Great Observatories", which also include the Hubble Space Telescope, the Chandra X-ray Observatory, and the Compton Gamma Ray Observatory. Developed over twenty years and dubbed the "Infrared Hubble, Spitzer was launched in the summer of 2003 and has since contributed significantly to our understanding of the universe. George Rieke played a key role in Spitzer and now relates the story of how that observatory was built and launched into space. Telling the story of this single mission within the context of NASA space science over two turbulent decades, he describes how, after a tortuous political trail to approval, Spitzer was started at the peak of NASA's experiment with streamlining and downsizing its mission development process, termed "faster better cheaper." Up to its official start and even afterward, Spitzer was significant not merely in terms of its scientific value but because it stood at the center of major changes in space science policy and politics. Through interviews with many of the project participants, Rieke reconstructs the political and managerial process by which space missions are conceived, approved, and developed. He reveals that by the time Spitzer had been completed, a number of mission failures had undermined faith in "faster-better-cheaper" and a more conservative approach was imposed. Rieke examines in detail the premises behind "faster better cheaper," their strengths and weaknesses, and their ultimate impact within the context of NASA's continuing search for the best way to build future missions. Rieke's participant's perspective takes readers inside Congress and NASA to trace the progress of missions prior to the excitement of the launch, revealing the enormously complex and often disheartening political process that needs to be negotiated. He also shares some of the new observations and discoveries made by Spitzer in just its first year of operation. As the only book devoted to the Spitzer mission, *The Last of the Great Observatories* is a story at the nexus of politics and science, shedding new light on both spheres as it contemplates the future of mankind's exploration of the universe.

Observatories and Telescopes of Modern Times David Leverington, 2017 Radio Observatory and Telescope Index -- General Index

The Next Generation Space Telescope H. S. Peter Stockman, 1998

Astrophysics in the Next Decade Harley A. Thronson, Massimo Stiavelli, Alexander Tielens, 2009-02-03 NASA's James Webb Space Telescope (JWST), planned for operation in about five years, will have the capability to investigate – and answer – some of the most challenging questions in astronomy. Although motivated and designed to study the very early Universe, the performance of the observatory's instruments over a very wide wavelength range will allow the world's scientific community unequaled ability to study cosmic phenomena as diverse as small bodies in the Solar System and the formation of galaxies. As part of preparation to use JWST, a conference was held in Tucson, Arizona in 2007 that brought together astronomers from around the world to discuss the mission, other major facilities that will operate in the coming decade, and major scientific goals for them. This book is a compilation of those presentations by some of the leading researchers from all branches of astronomy. This book also includes a "pre-history" of JWST, describing the lengthy process and some of the key individuals that initiated early work on the concepts that would evolve to become the premier space observatory of the next decade.

Space Telescopes Andrew Langley, 2019-08 Edge Books are published by Capstone Press.

Open Skies Kenneth I. Kellermann, Ellen N. Bouton, Sierra S. Brandt, 2020-01-01 This open access book on the history of the National Radio Astronomy Observatory covers the scientific discoveries and technical innovations of late 20th century radio astronomy with particular attention to the people and institutions involved. The authors have made extensive use of the NRAO Archives, which contain an unparalleled collection of documents pertaining to the history of radio astronomy, including the institutional records of NRAO as well as the personal papers of many of the pioneers of U.S. radio astronomy. Technical details and extensive citations to original sources are given in notes for the more technical readers, but are not required for an understanding of the body of the book. This book is intended for an audience ranging from interested lay readers to professional researchers studying the scientific, technical, political, and cultural development of a new science, and how it changed the course of 20th century astronomy.

The Space Telescope Observatory Donald Norman Blake Hall, 1982

Assessment of Options for Extending the Life of the Hubble Space Telescope National Research Council, Division on Engineering and Physical Sciences, Aeronautics and Space Engineering Board, Space Studies Board, Committee on the Assessment of Options for Extending the Life of the Hubble Space Telescope, 2005-03-28 The Hubble Space Telescope (HST) has operated continuously since 1990. During that time, four space shuttle-based service missions were launched, three of which added major observational capabilities. A fifth "SM-4" was intended to replace key telescope systems and install two new instruments. The loss of the space shuttle Columbia, however, resulted in a decision by NASA not to pursue the SM-4 mission leading to a likely end of Hubble's useful life in 2007-2008. This situation resulted in an unprecedented outcry from scientists and the public. As a result, NASA began to explore and develop a robotic servicing mission; and Congress directed NASA to request a study from the National Research Council (NRC) of the robotic and shuttle servicing options for extending the life of Hubble. This report presents an assessment of those two options. It provides an examination of the contributions made by Hubble and those likely as the result of a servicing mission, and a comparative analysis of the potential risk of the two options for servicing Hubble. The study concludes that the Shuttle option would be the most effective one for prolonging Hubble's productive life.

Hubble Space Telescope Space Telescope Science Institute (U.S.), 1990

The Hubble Space Telescope David J. Shayler, David M. Harland, 2015-11-25 The highly successful Hubble Space Telescope was meant to change our view and understanding of the universe. Within weeks of its launch in 1990, however, the space community was shocked to find out that the primary mirror of the telescope was flawed. It was only the skills of scientists and engineers on the ground and the daring talents of astronauts sent to service the telescope in December 1993 that saved the mission. For over two decades NASA had developed the capabilities to service a payload in orbit. This involved numerous studies and the creation of a ground-based infrastructure to support the challenging missions. Unique tools and EVA hardware supported the skills developed in crew training that then enabled astronauts to complete a demanding series of spacewalks. Drawing upon first hand interviews with those closely involved in the project over thirty years ago this story explains the development of the servicing mission concept and the hurdles that had to be overcome to not only launch the telescope but also to mount the first servicing mission – a mission that restored the telescope to full working order three years after its

launch, saved the reputation of NASA, and truly opened a new age in understanding of our place in space. This is not just a tale of space age technology, astronauts and astronomy. It is also a story of an audacious scientific vision, and the human ingenuity and determination to overcome all obstacles to make it possible. Hubble Space Telescope: From Concept to Success is a story of an international partnership, dedicated teamwork and a perfect blend of human and robotic space operations that will inspire people of all ages. The subsequent servicing missions that enabled the telescope to continue its scientific program beyond its 25th year in orbit are described in a companion volume Enhancing Hubble's Vision: Servicing a National Treasure.

Inventing a Space Mission Vincent Minier, Roger-Maurice Bonnet, Vincent Bontems, Thijs de Graauw, Matt Griffin, Frank Helmich, Göran Pilbratt, Sergio Volonte, 2017-11-26 This book describes prominent technological achievements within a very successful space science mission: the Herschel space observatory. Focusing on the various processes of innovation it offers an analysis and discussion of the social, technological and scientific context of the mission that paved the way to its development. It addresses the key question raised by these processes in our modern society, i.e.: how knowledge management of innovation set the conditions for inventing the future? In that respect the book is based on a transdisciplinary analysis of the programmatic complexity of Herschel, with inputs from space scientists, managers, philosophers, and engineers. This book is addressed to decision makers, not only in space science, but also in other industries and sciences using or building large machines. It is also addressed to space engineers and scientists as well as students in science and management.

Eyes on the Skies Govert Schilling, Lars Lindberg Christensen, 2011-12-07 Adopted as the official book of the International Year of Astronomy (IYA) 2009, this stunningly illustrated history of telescopic discovery spans the range from the first telescopes via the Hubble Space Telescope to next generation platforms, and how they have changed and continue to change our view of the universe, our place in it and where it all came from. EYES ON THE SKIES features numerous full-page photographs and is printed in high-quality color throughout. Also includes the official IYA DVD with 59 minutes of narrated text, expert comments and interviews, animations, computer simulations, science results, plus footage from observatories.

The Universe in a Mirror Robert Zimmerman, 2010-02-22 The Hubble Space Telescope has produced the most stunning images of the cosmos humanity has ever seen. It has transformed our understanding of the universe around us, revealing new information about its age and evolution, the life cycle of stars, and the very existence of black holes, among other startling discoveries. But it took an amazing amount of work and perseverance to get the first space telescope up and running. The Universe in a Mirror tells the story of this telescope and the visionaries responsible for its extraordinary accomplishments. Robert Zimmerman takes readers behind the scenes of one of the most ambitious scientific instruments ever sent into space. After World War II, astronomer Lyman Spitzer and a handful of scientists waged a fifty-year struggle to build the first space telescope capable of seeing beyond Earth's atmospheric veil. Zimmerman shows how many of the telescope's advocates sacrificed careers and family to get it launched, and how others devoted their lives to Hubble only to have their hopes and reputations shattered when its mirror was found to be flawed. This is the story of an idea that would not die--and of the dauntless human spirit. Illustrated with striking color images, The Universe in a Mirror describes the heated battles between scientists and bureaucrats, the perseverance of astronauts to repair and maintain the telescope, and much more. Hubble, and the men and women behind it, opened a rare window onto the universe, dazzling humanity with sights never before seen. This book tells their remarkable story. A new afterword updates the reader on the May 2009 Hubble service mission and looks to the future of astronomy, including the prospect of a new space telescope to replace Hubble.

The Hubble Wars Eric Chaisson, 1998 The Hubble Space Telescope is the largest, most complex, and most powerful observatory ever deployed in space. Now Eric Chaisson, the senior scientist on the HST project, tells the inside story of the much heralded mission to fix the telescope. Copyright © Libri GmbH. All rights reserved.

Infrared Astronomy - Seeing the Heat David L. Clements, 2014-11-21 Uncover the Secrets of the Universe Hidden at Wavelengths beyond Our Optical Gaze William Herschel's discovery of infrared light in 1800 led to the development of astronomy at wavelengths other than the optical. Infrared Astronomy - Seeing the Heat: from William Herschel to the Herschel Space Observatory explores the work in astronomy that relies on

Space Telescopes Neil English, 2016-11-08 Space telescopes are among humankind's greatest scientific achievements of the last fifty years. This book describes the instruments themselves and what they were designed to discover about the Solar System and distant stars. Exactly how these telescopes were built and launched and the data they provided is explored. Only certain kinds of radiation can penetrate our planet's atmosphere, which limits what we can observe. But with space telescopes all this changed. We now have the means to see beyond Earth using ultraviolet, microwave, and infrared rays, X-rays and gamma rays. In this book we meet the pioneers and the telescopes that were built around their ideas. This book looks at space telescopes not simply chronologically but also in order of the electromagnetic spectrum, making it possible to understand better why they were made.

Optimizing the U.S. Ground-Based Optical and Infrared Astronomy System National Research Council, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Committee on a Strategy to Optimize the U.S. Optical and Infrared System in the Era of the Large Synoptic Survey Telescope (LSST), 2015-06-26 New astronomical facilities, such as the under-construction Large Synoptic Survey Telescope and planned 30-meter-class telescopes, and new instrumentation on existing optical and infrared (OIR) telescopes, hold the promise of groundbreaking research and discovery. How can we extract the best science from these and other astronomical facilities in an era of potentially flat federal budgets for both the facilities and the research grants? Optimizing the U.S. Ground-Based Optical and Infrared Astronomy System provides guidance for these new programs that align with the scientific priorities and the conclusions and recommendations of two National Research Council (NRC) decadal surveys, New Worlds, New Horizons for Astronomy and Astrophysics and Vision and Voyages for Planetary Sciences in the Decade 2013-2022, as well as other NRC reports. This report describes a vision for a U.S. OIR System that includes a telescope time exchange designed to enhance science return by broadening access to capabilities for a diverse community, an ongoing planning process to identify and construct next generation capabilities to realize decadal science priorities, and near-term critical coordination, planning, and instrumentation needed to usher in the era of LSST and giant telescopes.

Coloring the Universe Travis Rector, Kimberly Arcand, Megan Watzke, 2015-11-15 With a fleet of telescopes in space and giant observatories on the ground, professional astronomers produce hundreds of spectacular images of space every year. These colorful pictures have become infused into popular culture; we find them on billboards, in commercials, and on our computers. But they also invite questions: Is this what outer space really looks like? Are

the colors real? How are these images made? Coloring the Universe uses accessible language to describe how these giant telescopes work, what scientists learn with them, and how they are used to make color images. Both informative and beautiful, this book is filled with brilliant images of deep space as well as an insider s perspective by the people who make them.

Hubble Space Telescope Michael D. Cole,1999 The journey of the Hubble Space Telescope did not initially provide images with the clarity that scientists had hoped for. Michael D. Cole details the exciting repair and servicing missions that followed. He also clearly explains the telescope's role in answering questions about the age and composition of the universe. Color photographs from the repair missions and the incredible images that Hubble has provided highlight the book.

A Visitor's Guide to the Kitt Peak Observatories Leslie Sage,Gail Aschenbrenner,2004-04-22 A guide to the Kitt Peak telescopes.

The Enigmatic Realm of **Space Observatory**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Space Observatory** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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