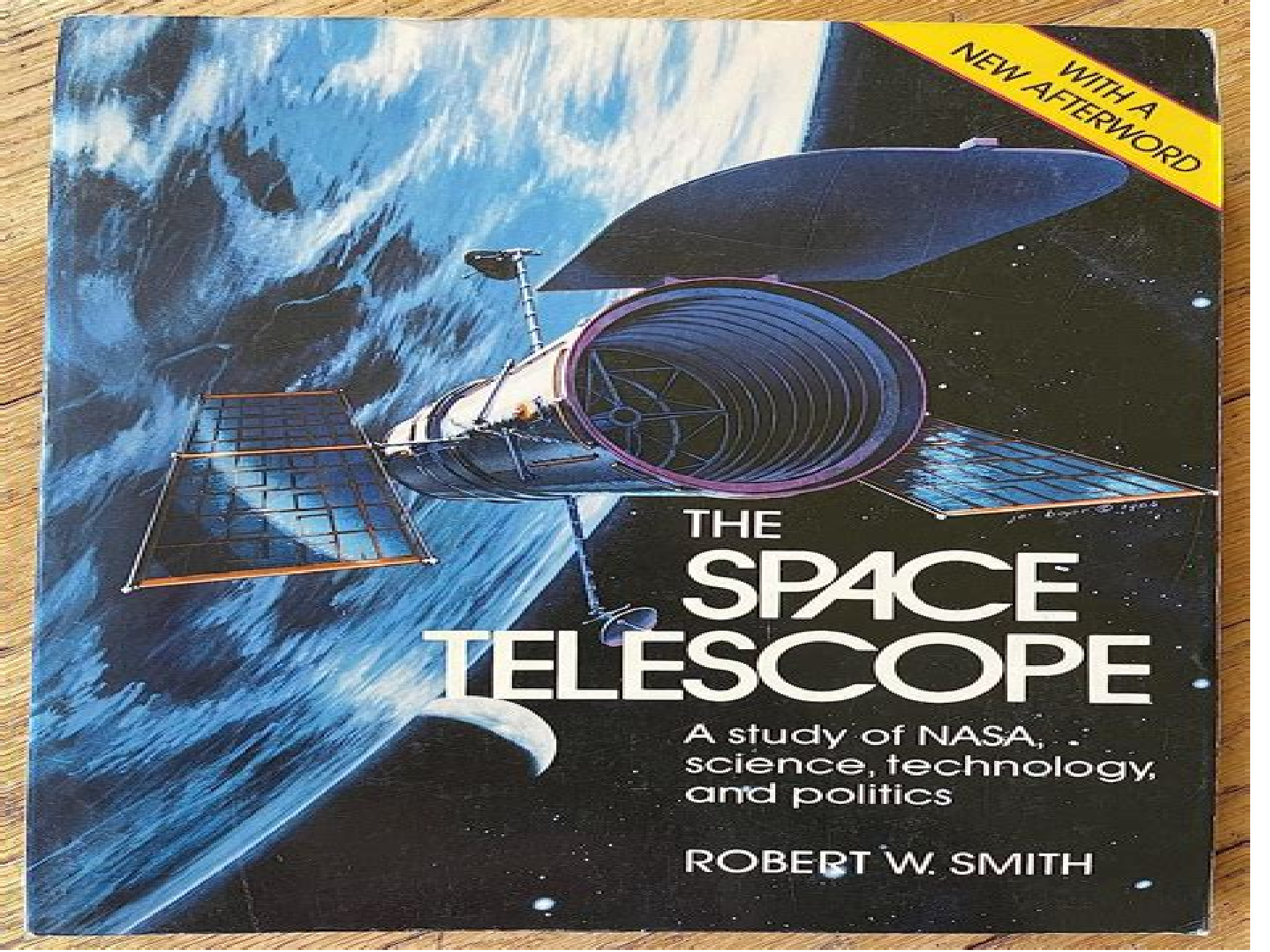




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NEW AFTERWORD

THE SPACE TELESCOPE

A study of NASA,
science, technology,
and politics

ROBERT W. SMITH

Space Telescope A Study Of Nasa Science Technology And Politics

Robert William Smith



Space Telescope A Study Of Nasa Science Technology And Politics:

The Space Telescope Robert W. Smith, 1989-10-27 Robert Smith's *The Space Telescope* sets the fascinating and disturbing history of this massive venture within the context of Big Science. Launched at a cost of no more than 2 billion the Space Telescope turned out to be seriously flawed by imperfections in the construction of its lenses and by solar panels that caused it to shudder when moving from daylight to darkness. Smith analyses how the processes of Big Science especially those involving the government's funding process for large scale projects contributed to those failures. He reveals the astonishingly complex interactions that took place among the scientific community, government and industry and describes the great range of personalities and forces scientific, technical, political, social, institutional and economic that played roles in the Space Telescope's history.

The Space Telescope Robert W. Smith, Paul A. Hanle, 1993 *The Space Telescope* launched into orbit aboard the Space Shuttle late in 1989 promised to be the most powerful optical telescope ever built, yielding new insights into the past, present and future of the universe. The authors trace the Telescope's history and detail the astonishingly complex interactions that took place between the scientific community, government and private industry in the course of its development. The Telescope is thus much more than a new astronomical instrument but instead must be seen as the product of a great range of forces: scientific, technical, political, social, institutional and economic. The history of the Space Telescope is set in the context of post World War II science and Big Science large scale scientific projects that require massive federal funding and are as much political and managerial efforts as they are scientific and technical ones. The Space Telescope is an example of a Big Science program of the very largest kind and the book thus reveals the many complex factors and new institutions and strategies that are involved in funding and carrying out large scale scientific projects in the late twentieth century.

Space telescope, 1993

The Space Telescope Robert William Smith, 1989 *Reinventing NASA* Roger Handberg, 2003-12-30 From its beginnings NASA was convinced that its real mission was to create the opportunity for a much different and better society on Earth namely through human space flight. Pursuit of such a goal has led the agency to persist in certain activities even when they conflict with the wishes of Congress and the President. Recent changes in the international environment changes that began well before September 11, 2001 have brought the military back into the field of human space flight a situation that holds certain hazards for NASA since the military is more powerful politically. Dramatic changes could be in store changes that could severely damage NASA's capacity for continuing what it sees as its primary objective. While most analyses see the agency as riddled with incompetence Handberg argues that NASA's troubles are a product of its internal values. He begins with an historical overview of the major themes in NASA's history followed by chapters on specific areas of concentration such as the space station, space transportation, space science and internal reforms. He also discusses the long term future of the agency and human space flight in general both domestically and internationally.

Spies and Shuttles James E. David, 2015-01-27 Revealing the connections between NASA and the

United States defense community In this real life spy saga James E David reveals the extensive and largely hidden interactions between NASA and U S defense and intelligence departments The story begins with the establishment of NASA in 1958 and follows the agency through its growth not only in scope but also in complexity In Spies and Shuttles David digs through newly declassified documents to ultimately reveal how NASA became a strange bedfellow to the Department of Defense DoD and the Central Intelligence Agency CIA He tracks NASA s early cooperation supplying cover stories for covert missions analyzing the Soviet space program providing weather and other scientific data from its satellites and monitoring missile tests that eventually devolved into NASA s reliance on DoD for political and financial support for the Shuttle David also examines the restrictions imposed on such activities as photographing the Earth from space and the intrusive review mechanisms to ensure compliance The ties between NASA and the intelligence community have historically remained unexplored and David s riveting book is the first to investigate the twists and turns of this labyrinthine relationship

Shaping Biology Toby A. Appel, 2003-04-30 Historians of the postwar transformation of science have focused largely on the physical sciences especially the relation of science to the military funding agencies In Shaping Biology Toby A Appel brings attention to the National Science Foundation and federal patronage of the biological sciences Scientists by training NSF biologists hoped in the 1950s that the new agency would become the federal government s chief patron for basic research in biology the only agency to fund the entire range of biology from molecules to natural history museums for its own sake Appel traces how this vision emerged and developed over the next two and a half decades from the activities of NSF s Division of Biological and Medical Sciences founded in 1952 through the cold war expansion of the 1950s and 1960s and the constraints of the Vietnam War era to its reorganization out of existence in 1975 This history of NSF highlights fundamental tensions in science policy that remain relevant today the pull between basic and applied science funding individuals versus funding departments or institutions elitism versus distributive policies of funding issues of red tape and accountability In this NSF funded study Appel explores how the agency developed how it worked and what difference it made in shaping modern biology in the United States Based on formerly untapped archival sources as well as on interviews of participants and building upon prior historical literature Shaping Biology covers new ground and raises significant issues for further research on postwar biology and on federal funding of science in general

Engineering the Environment David P. D.

Munns, 2017-07-19 Promising an end to global hunger and political instability huge climate controlled laboratories known as phytotrons spread around the world to thirty countries after the Second World War The United States built nearly a dozen including the first at Caltech in 1949 Made possible by computers and other novel greenhouse technologies of the early Cold War phytotrons enabled plant scientists to experiment on the environmental causes of growth and development of living organisms Subsequently they turned biologists into technologists who in their pursuit of knowledge about plants also set out to master the machines that controlled their environment Engineering the Environment tells the forgotten story of a research

program that revealed the shape of the environment the limits of growth and development and the limits of human control over complex technological systems As support and funding for basic science dwindled in the mid 1960s phytotrons declined and ultimately disappeared until nearly thirty years later the British built the Ecotron to study the impact of climate change on biological communities By revisiting this history of phytotrons David Munns reminds us of the vital role they can play in helping researchers unravel the complexities of natural ecosystems in the Anthropocene

Chemical Sciences in the Modern World Seymour H. Mauskopf, 2016-11-11 It would be difficult to overestimate the importance of the chemical sciences to the modern world In the last 150 years they have transformed our physical environment our material culture our manner of living and even our persons and they are continuing to do so in profound ways Yet the detailed and systematic study of the history of the modern chemical sciences has been relatively late in coming This compilation of essays by leading scholars represents the first fruits of modern historical scholarship The essays vary in form and content some represent detailed original research others are cast as synoptic blueprints for future research in major domains of scholarship still others are provocative reflections on the opportunities and challenges facing historians of chemical sciences and industries and their audiences The essays in Part One deal with the experimental generation of new chemical knowledge the nature of theories about chemical knowledge and the reception of new knowledge by the chemical community Part Two is devoted primarily to the development of modern industrial chemistry Part Three is concerned with preserving archives and artifacts owned by public and private institutions with making the history of chemistry accessible to persons interested but not trained in history and with helping both policymakers and the general public to understand the policy issues involving the chemical sciences and industries through the insights provided by historical research Part Four the concluding section discusses future prospects for the history of the chemical sciences addressing questions about methodology audience and new directions for research

A Social History of Knowledge II Peter Burke, 2013-04-17 Peter Burke follows up his magisterial *Social History of Knowledge* picking up where the first volume left off around 1750 at the publication of the French *Encyclopédie* and following the story through to Wikipedia Like the previous volume it offers a social history or a retrospective sociology of knowledge in the sense that it focuses not on individuals but on groups institutions collective practices and general trends The book is divided into 3 parts The first argues that activities which appear to be timeless gathering knowledge analysing disseminating and employing it are in fact time bound and take different forms in different periods and places The second part tries to counter the tendency to write a triumphalist history of the growth of knowledge by discussing losses of knowledge and the price of specialization The third part offers geographical sociological and chronological overviews contrasting the experience of centres and peripheries and arguing that each of the main trends of the period professionalization secularization nationalization democratization etc coexisted and interacted with its opposite As ever Peter Burke presents a breath taking range of scholarship in prose of exemplary clarity and accessibility This highly anticipated

second volume will be essential reading across the humanities and social sciences

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Table of Contents Space Telescope A Study Of Nasa Science Technology And Politics

1. Understanding the eBook Space Telescope A Study Of Nasa Science Technology And Politics
 - The Rise of Digital Reading Space Telescope A Study Of Nasa Science Technology And Politics
 - Advantages of eBooks Over Traditional Books
2. Identifying Space Telescope A Study Of Nasa Science Technology And Politics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Space Telescope A Study Of Nasa Science Technology And Politics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Space Telescope A Study Of Nasa Science Technology And Politics
 - Personalized Recommendations
 - Space Telescope A Study Of Nasa Science Technology And Politics User Reviews and Ratings
 - Space Telescope A Study Of Nasa Science Technology And Politics and Bestseller Lists

5. Accessing Space Telescope A Study Of Nasa Science Technology And Politics Free and Paid eBooks
 - Space Telescope A Study Of Nasa Science Technology And Politics Public Domain eBooks
 - Space Telescope A Study Of Nasa Science Technology And Politics eBook Subscription Services
 - Space Telescope A Study Of Nasa Science Technology And Politics Budget-Friendly Options
6. Navigating Space Telescope A Study Of Nasa Science Technology And Politics eBook Formats
 - ePub, PDF, MOBI, and More
 - Space Telescope A Study Of Nasa Science Technology And Politics Compatibility with Devices
 - Space Telescope A Study Of Nasa Science Technology And Politics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Space Telescope A Study Of Nasa Science Technology And Politics
 - Highlighting and Note-Taking Space Telescope A Study Of Nasa Science Technology And Politics
 - Interactive Elements Space Telescope A Study Of Nasa Science Technology And Politics
8. Staying Engaged with Space Telescope A Study Of Nasa Science Technology And Politics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Space Telescope A Study Of Nasa Science Technology And Politics
9. Balancing eBooks and Physical Books Space Telescope A Study Of Nasa Science Technology And Politics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Space Telescope A Study Of Nasa Science Technology And Politics
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Space Telescope A Study Of Nasa Science Technology And Politics
 - Setting Reading Goals Space Telescope A Study Of Nasa Science Technology And Politics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Space Telescope A Study Of Nasa Science Technology And Politics
 - Fact-Checking eBook Content of Space Telescope A Study Of Nasa Science Technology And Politics
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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