

Five Billion Vodka Bottles to the Moon

TALES OF A SOVIET SCIENTIST

IOSIF SHKLOVSKY

TRANSLATED AND ADAPTED BY MARY FLEMING ZIRIN & HAROLD ZIRIN
INTRODUCTION BY HERBERT FRIEDMAN

Five Billion Vodka Bottles To The Moon Tales Of A Soviet Scientist

I. S. Shklovskii



Five Billion Vodka Bottles To The Moon Tales Of A Soviet Scientist:

Five Billion Vodka Bottles to the Moon I. S. Shklovskii, 1991 The late Soviet astronomer recounts his leadership of the Soviet space program and offers portraits of both admired fellow scientists and detested bureaucrats

A Brief History of Radio Astronomy in the USSR S. Y. Braude, B. A. Dubinskii, N. L. Kaidanovskii, N. S. Kardashev, M. M. Kobrin, A. D. Kuzmin, A. P. Molchanov, Yu. N. Pariiskii, O. N. Rzhiga, A. E. Salomonovich, V. A. Samanian, I. S. Shklovskii, R. L. Sorochenko, V. S. Troitskii, K. I. Kellermann, 2012-03-14 This translation of *A Brief History of Radio Astronomy in the USSR* makes descriptions of the antennas and instrumentation used in the USSR the astronomical discoveries as well as interesting personal backgrounds of many of the early key players in Soviet radio astronomy available in the English language for the first time This book is a collection of memoirs recounting an interesting but largely still dark era of Soviet astronomy The arrangement of the essays is determined primarily by the time when radio astronomy studies began at the institutions involved These include the Lebedev Physical Institute FIAN Gorkii State University and the affiliated Physical Technical Institute GIFTI Moscow State University Sternberg Astronomical institute GAISH and Space Research Institute IKI the Department of Radio Astronomy of the Main Astronomical Observatory in Pulkovo GAO Special Astrophysical Observatory SAO Byurakan Astrophysical Observatory BAO Crimean Astrophysical Observatory Academy of Sciences of the Ukraine SSR Institute of Radio Physics and Electronics of the USSR Academy of Sciences IRE Institute of Terrestrial Magnetism the Ionosphere and Radio Wave Propagation Institute IZMIRAN Siberian Institute of Terrestrial Magnetism the Ionosphere and Radio Wave Propagation SibIZMIRAN the Radio Astrophysical Observatory of the Latvian Academy of Sciences and Leningrad State University *A Brief History of Radio Astronomy in the USSR* is a fascinating source of information on a past era of scientific culture and fields of research including the Soviet SETI activities Anyone interested in the recent history of science will enjoy reading this volume

Russian Space Probes Brian Harvey, Olga Zakutnyaya, 2011-05-04 Brian Harvey recounts for the first time the definitive history of scientific Russian space probes and the knowledge they acquired of the Earth its environment the Moon Mars and Venus He examines what Russian Space Science has actually achieved in furthering our knowledge of the Solar System focusing on the instrumentation and scientific objectives and outcomes the information gained and lessons learnt Boxes and charts are used extensively in order to convey in an easily understandable manner for the non scientific reader the problems and issues addressed and solved by Soviet space science The book opens with the story of early space science in Russia which started when the first Russian rockets were fired into the high atmosphere from Kapustin Yar in the late 1940s Instruments were carried to measure and map the atmosphere and later rockets carried dogs to test their reactions to weightlessness In order to beat America into Earth orbit two simpler satellites than originally planned were launched Sputnik and Sputnik 2 which provided some initial information on atmospheric density while the following Sputnik 3 carried twelve instruments to measure radiation belts solar radiation the density of the

atmosphere and the Earth's magnetic field The author recounts how by the 1960s the Soviet Union had developed a program of investigation of near Earth space using satellites within the Cosmos program in particular the DS Dnepropetrovsky Sputnik small satellites developed to investigate meteoroids radiation the magnetic fields the upper atmosphere solar activity ionosphere charged particles cosmic rays and geophysics Brian Harvey then gives the scientific results from Russian lunar exploration starting with the discovery of the solar wind by the First Cosmic Ship and the initial mapping of the lunar far side by the Automatic Interplanetary Station He describes Luna 10 which made the first full study of the lunar environment Luna 16 which brought soil back to Earth and the two Moon rovers which travelled 50 kms across the lunar surface taking thousands of measurements soil analyses and photographs as well as profiles of discrete areas Chapters 4 and 5 describe in detail the scientific outcomes of the missions to Venus and Mars before considering the orbiting space stations in Chapter 6 Space science formed an important part of the early manned space program the prime focus being the human reaction to weightlessness how long people could stay in orbit and the effects on the body as well as radiation exposure Chapter 7 looks at the later stage of Soviet and Russian space science including Astron and Granat the two observatories of the 1980s and Bion the space biology program which flew monkeys and other animals into orbit The final chapter looks forward to a new period of Russian space science with the Spektr series of observatories and a range smaller science satellites under the Federal Space Plan 2006 2015

Cosmonaut Cathleen S. Lewis, 2023-08-08 Examining material and cultural representations of the cosmonaut program Cathleen Lewis discusses how the public image of the Soviet cosmonaut developed beginning in the 1950s and the ways this icon has been reinterpreted throughout the years and in contemporary Russia

Biographies of Scientists Roger Smith, 1998 Identifies over 500 sources of information about the lives of scientists for young and adult general readers and for scholars Entries ranging from a quarter to a half page in length explain briefly what the subjects achieved worthy of biography as well as describing the work in some detail The works cited include books encyclopedias and periodicals and both biography and autobiography The arrangement is by discipline the social sciences are not included with indexes by author and subject scientist Annotation copyrighted by Book News Inc Portland OR

UFO Garrett M. Graff, 2024-11-12 One of the rare books on the topic that manages to be both entertaining and factually grounded The Wall Street Journal From the bestselling author of Raven Rock The Only Plane in the Sky and Watergate finalist for the Pulitzer Prize in history comes the first comprehensive and eye opening exploration of our government's decades long quest to solve one of humanity's greatest mysteries Are we alone in the universe For as long as we have looked to the skies the question of whether life on earth is the only life to exist has been at the core of the human experience driving scientific debate and discovery shaping spiritual belief and prompting existential thought across borders and generations It's one of our culture's favorite conversations and yet the idea of extraterrestrial intelligence has been largely banished to the realm of fantasy and conspiracy Now for the first time the full story of our national obsession with UFOs and the covert

search by scientists the United States military and the CIA for proof of alien life is told by bestselling author and Pulitzer Prize finalist Garrett M Graff in a deeply reported and researched history It begins in 1947 when two headline making sightings of strange flying objects prompt the US Air Force s newly formed Department of Defense to create a series of secret programs to determine how unidentified phenomena may pose a threat to national security Over the next half century as the atomic age gives way to the space race and the Cold War the mission continues bringing together an unexpected group of astronomers military officials civilian contactees and true believers who bring us closer then further then closer again to answering one of our most enduring questions What exactly is out there Drawing from original archival research declassified documents and interviews with senior intelligence and military officials Graff brings readers a story that s Loads of fun a fascinating deep dive down the rabbit hole Publishers Weekly NASA in the World John Krige,Ashok Maharaj,Angela Long Callahan,2013-08-20 Since its inception NASA has participated in over 4 000 international projects yet historians have almost entirely neglected this remarkable aspect of the agency s work This groundbreaking work is the first to trace NASA s history in a truly international context drawing on unprecedented access to agency archives and personnel

Experimenting the Human G Douglas Barrett,2023-01-13 An engaging argument about what experimental music can tell us about being human In Experimenting the Human G Douglas Barrett argues that experimental music speaks to the contemporary posthuman a condition in which science and technology decenter human agency amid the uneven temporality of postwar global capitalism Time moves forward for some during this period while it seems to stand still or even move backward for others Some say we re already posthuman while others endure the extended consequences of never having been considered fully human in the first place Experimental music reflects on this state Barrett contends through its interdisciplinary involvements in postwar science technology and art movements Rather than pursuing the human s beyond experimental music addresses the social and technological conditions that support such a pursuit Barrett locates this tendency of experimentalism throughout its historical entanglements with cybernetics and in his intimate analysis of Alvin Lucier s neurofeedback music Pamela Z s BodySynth performances Nam June Paik s musical robotics Pauline Oliveros s experiments with radio astronomy and work by Laetitia Sonami Yasunao Tone and Jerry Hunt Through a unique meeting of music studies media theory and art history Experimenting the Human provides fresh insights into what it means to be human

Carl Sagan Keay Davidson,2000-09-01 A penetrating mesmerizing biography of a scientific icon Absolutely fascinating Davidson has done a remarkable job Sir Arthur C Clarke Engaging accessible carefully documented sophisticated Dr David Hollinger for The New York Times Book Review Entertaining Davidson treats the nuances of Sagan s complex life with understanding and sympathy The Christian Science Monitor Excellent Davidson acts as a keen critic to Sagan s works and their vast uncertainties Scientific American A fascinating book about an extraordinary man Johnny Carson Davidson an award winning science writer has written an absorbing portrait of this Pied Piper of planetary science Davidson thoroughly

explores Sagan's science wrestles with his politics and plumbs his personal passions with a telling instinct for the revealing underside of a life lived so publicly Los Angeles Times Carl Sagan was one of the most celebrated scientists of this century the handsome and alluring visionary who inspired a generation to look to the heavens and beyond His life was both an intellectual feast and an emotional rollercoaster Based on interviews with Sagan's family and friends including his widow Ann Druyan his first wife acclaimed scientist Lynn Margulis and his three sons as well as exclusive access to many personal papers this highly acclaimed life story offers remarkable insight into one of the most influential provocative and beloved figures of our time a complex contradictory prophet of the Space Age

Rockets and People: Creating a rocket industry Boris Evseevich Chertok, 2005 V 1 no special title v 2 Creating a rocket industry v 3 Hot days of the Cold War v 4 The moon race

Waiting for Contact Lawrence Squeri, 2016-08-31 A cogent engaging history of humanity's most ambitious quest seeking outward for other minds David Brin author of *Existence* A fascinating perspective on humankind's obsession for knowing if there is anyone else out there Gerrit L Verschuur author of *The Invisible Universe The Story of Radio Astronomy* Squeri has written what will likely be the definitive history of the early days of SETI that includes profiles of some of its leading characters Ben Zuckerman coeditor of *Extraterrestrials Where Are They* An insightful history that explores the scientific foundations of the modern day search for our place in the cosmos *Waiting for Contact* delivers unparalleled access to the inner history of SETI and invites us to ride along on the journey to answer one of science's ultimate questions Are we alone Douglas Vakoch president METI International *Waiting for Contact* is a balanced account telling the tale of the search for extraterrestrial intelligence without the overpromise usually trumpeted by enthusiastic proponents and the hyperventilation so commonly added by UFO enthusiasts If you are simply interested in the history unvarnished by an agenda you'll enjoy this book Don Lincoln author of *Alien Universe Extraterrestrial Life in Our Minds* and in the *Cosmos* Imagine a network of extraterrestrials in radio contact with each other across the universe superior beings who hail from advanced civilizations quadrillions of miles away just waiting for Earth to tune in Some people believe it's only a matter of time before we discover the right station *Waiting for Contact* tells the story of the Search for Extraterrestrial Intelligence SETI movement which emerged in 1959 as astronomers began using radio telescopes to listen for messages from space New technological developments turned what once was speculation into science Boosted by support from Frank Drake Philip Morrison Carl Sagan and the genre of science fiction the SETI movement gained followers and continues to capture imaginations today In this one of a kind history Lawrence Squeri looks at the people reasons goals and mindsets behind SETI He shows how it started as an expression of the times a way out of Cold War angst with hope for a better world SETI's early advocates thought that with guidance from technically and ethically advanced outsiders humanity might learn how to avoid horrors like nuclear annihilation and societal collapse from overpopulation Some hoped that good news from outer space might reveal a cure for cancer or even the secret of immortality Squeri also describes the challenges SETI has faced over the years the

struggle to be taken seriously by the scientific community and by NASA competition for access to radio telescopes perpetual lack of funding and opposition from influential politicians He covers the rise and fall of Soviet SETI and the few rare meetings between Soviet and American astronomers Despite many setbacks the movement pressed forward with the aid of private donations and developed outreach programs Volunteers can now help search for new civilizations on their personal computers by joining the SETI Home project Today SETI researchers continue to see themselves as explorers They often identify with Columbus and just as Columbus never realized the full implications of his discovery we cannot predict what will happen if contact is made This book points out that if against all expectations the embattled SETI movement finally succeeds the long awaited first signal picked up by its radio antennas will usher the greatest shift in human history A new adventure will begin Lawrence Squeri is professor emeritus of history at East Stroudsburg University

The Spacefaring Earth Michael G. Smith, 2024-12-04 This engaging survey of the Space Age links science and technology with politics and popular culture war and peace and crises and controversies It examines the history of spaceflight as a mirror of human thought and action across the Earth The volume encompasses the new astronomy and sciences of the modern era the early dreamers and pioneers after 1903 the national competitions of the First World War the rocket states that prepared for the Second World War the rivalries and space race of the Cold War between the US and USSR as well as more recent developments including the Space Shuttle the International Space Station national space programs orbital technologies transhumanism and military and commercial ventures in space It also stresses the importance of geography in the geopolitics of spaceflight competition and in the nature of the planetary biosphere Taking a chronological approach to lived human experience and threshold achievements the chapters show how these themes have been reflected in literature art music film and our new digital worlds This book is essential reading for students of the history of the Space Age as well as an excellent companion to courses on twentieth century science and technology the Cold War and American history

History of Astronomy John Lankford, 1997 First Published in 1997 Routledge is an imprint of Taylor Francis an informa company

Rockets and People, Volume III, Hot Days of the Cold War , Astrophysical Lasers Vladilen Letokhov, Sverneric Johansson, 2009 Progress in modern radio astronomy led to the discovery of space masers in the microwave range and it became a powerful tool for studies of interstellar star forming molecular clouds Progress in observational astronomy particularly with ground based huge telescopes and the space based Hubble Space Telescope has led to recent discoveries of space lasers in the optical range These operate in gas condensations in the vicinity of the mysterious star Eta Carinae one of the most luminous and massive stars of our Galaxy Both maser and laser effects first demonstrated under laboratory conditions have now been discovered to occur under natural conditions in space too This book describes consistently the elements of laser science astrophysical plasmas modern astronomical observation techniques and the fundamentals and properties of astrophysical lasers A book with such an interdisciplinary scope has not been available to date The book will also be useful for a wider

audience interested in modern developments of the natural sciences and technology **Astrobiology, Discovery, and Societal Impact** Steven J. Dick, 2018-05-03 Examines humanistic aspects of astrobiology exploring approaches critical issues and implications of the discovery of extraterrestrial life **Rockets and People** Boris Evseevich Chertok, 2005 V 1 no special title v 2 Creating a rocket industry v 3 Hot days of the Cold War v 4 The moon race **Walter Baade** Donald E. Osterbrock, 2021-01-12 Although less well known outside the field than Edwin Hubble Walter Baade was arguably the most influential observational astronomer of the twentieth century Written by a fellow astronomer deeply familiar with Baade and his work this is the first biography of this major figure in American astronomy In it Donald Osterbrock suggests that Baade's greatest contribution to astrophysics was not as is often contended his revision of Hubble's distance and age scales for the universe Rather it was his discovery of two distinct stellar populations old and young stars This discovery opened wide the previously marginal fields of stellar and galactic evolution research areas that would be among the most fertile and exciting in all of astrophysics for decades to come Baade was born educated and gained his early research experience in Germany He came to the United States in 1931 as a staff member of Mount Wilson Observatory which housed the world's largest telescope There he pioneered research on supernovae With the 100 inch telescope he studied globular clusters and the structure of the Milky Way every step leading him closer to the population concept he discovered during the wartime years when the skies of southern California were briefly darkened Most Mount Wilson astronomers were working on weapons development crash programs devoted to bringing Baade's native country to its knees while he formally an enemy alien in their midst was confined to Los Angeles County but had almost unlimited use of the most powerful telescope in the world After his great discovery Baade continued his research with the new 200 inch telescope at Palomar Always respected and well liked he became even more famous among astronomers as they shifted their research to the fields he had opened Publicity shy and seemingly unconcerned with publication however Baade's celebrity remained largely within the field This accomplished biography at last introduces Baade and his important work to a wider public including the newest generation of skywatchers **Discovering Mars** William Sheehan, Jim Bell, 2021-11-09 A leading historian of astronomy and a leading planetary scientist who works at the forefront of space exploration provide a comprehensive history of the solar system's most alluring planet beyond Earth William Sheehan and Jim Bell chronicle how ancient watchers of the skies attended to Mars's red color and baffling movements how three and a half centuries of telescopic observations added vistas and controversies around possible seas and continents and canals and how the current era of exploration by flyby orbiter lander and rover spacecraft have conjured for us the reality of a world of towering shield volcanoes vast canyons ancient dry riverbeds and even possible evidence of past life A unique collaboration between two authors on the forefront of Mars explorations past and future Discovering Mars provides an ambitious detailed and evocative account of humanity's enduring fascination with the Red Planet *Compendium of Practical Astronomy* Günter D. Roth, 2012-12-06 It is a pleasure to

present this work which has been well received in German speaking countries through four editions to the English speaking reader We feel that this is a unique publication in that it contains valuable material that cannot easily if at all be found elsewhere We are grateful to the authors for reading through the English version of the text and for responding promptly for the most part to our queries Several authors have supplied us on their own initiative or at our suggestion with revised and updated manuscripts and with supplementary English references We have striven to achieve a translation of Handbuch for Sternfreunde which accurately presents the qualitative and quantitative scientific principles contained within each chapter while maintaining the flavor of the original German text Where appropriate we have inserted footnotes to clarify material which may have a different meaning and or application in English speaking countries from that in Germany When the first English edition of this work Astronomy A Handbook translated by the late A Beer appeared in 1975 it contained 21 chapters This new edition is over twice the length and contains 28 authored chapters in three volumes At Springer's request we have devised a new title Compendium of Practical Astronomy to more accurately reflect the broad spectrum of topics and the vast body of information contained within these pages

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