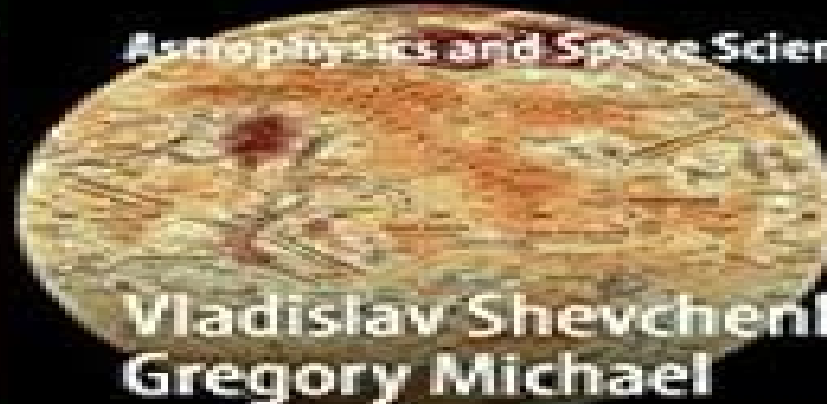


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Vladislav Shevchenko · Zhanna Rodionova
Gregory Michael

Lunar and Planetary Cartography in Russia

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Ivan I. Shevchenko



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Lunar and Planetary Cartography in Russia Vladislav Shevchenko, Zhanna Rodionova, Gregory Michael, 2015-10-29
This book is the first to document in depth the history of lunar and planetary cartography in Russia. The first map of the far side of the Moon was made with the participation of Lomonosov Moscow University Sternberg Astronomical Institute MSU in 1960. The developed mapping technologies were then used in preparing the Complete Map of the Moon in 1967 as well as other maps and globes. Over the years various maps of Mars have emerged from the special course Mapping of extraterrestrial objects in the MSU Geography Department including the hypsometric map of Mars at a scale of 1:26 000 000 compiled by J. A. Ilyukhina and published in 2004 in an edition of 5 000 copies. A more detailed version of this map has since been produced with a new hypsometric scale. In addition maps of the northern and southern hemispheres of Mars have been compiled for the hypsometric globe of Mars. Relief maps of Venus were made in 2008, 2010 and 2011 and hypsometric maps of Phobos and Deimos at a scale of 1:60 000 were published in 2011. History of Lunar and Planetary Cartography in Russia provides detailed information on the compilation of this diverse range of maps and will be of interest to all lunar and planetary cartographers.

Progress in Cartography Georg Gartner, Markus Jobst, Haosheng Huang, 2016-05-30
This book gathers the latest developments in modern cartography ranging from the innovative approaches being pursued at national mapping agencies and topographic mapping to new trends in the fields of Atlas Cartography, Cartographic Modelling, Multimedia Cartography, Historical Cartography and Cartographic Education. Europe can look back on a long and outstanding history in the field of Cartography and Geoinformation Science. Its rich and leading role in the domain of cartography is proven by contributions from various countries and with a diverse range of backgrounds.

Library of Congress Subject Headings Library of Congress, 1996
Book catalog of the Library and Information Services Division Environmental Science Information Center. Library and Information Services Division, 1977
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Library of Congress. Cataloging Policy and Support Office, 2005
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Bulletin ... of Books Added to the Public Library of Detroit, Mich, 1905
Catalog of the United States Geological Survey Library U.S. Geological Survey Library, 1976
[Dynamical Chaos in Planetary Systems](#) Ivan I. Shevchenko, 2020-08-31
This is the first monograph dedicated entirely to problems of stability and chaotic behaviour in planetary systems and its subsystems. The author explores the three rapidly developing interplaying fields of resonant and chaotic dynamics of Hamiltonian systems, the dynamics of Solar system bodies and the dynamics of exoplanetary systems. The necessary concepts, methods and tools used to study dynamical chaos such as symplectic maps, Lyapunov exponents and timescales, chaotic diffusion rates, stability diagrams and charts are described and then used to show in detail how the observed dynamical architectures arise in the Solar system and its subsystems and in exoplanetary systems. The book

concentrates in particular on chaotic diffusion and clearing effects The potential readership of this book includes scientists and students working in astrophysics planetary science celestial mechanics and nonlinear dynamics

Library of Congress Catalogs Library of Congress,1976 **Mapping Human and Natural Systems** Pete Bettinger,Krista Merry,Kevin Boston,2019-11-15 Mapping Human and Natural Systems covers our increasingly digital world internet communications cloud computing etc and how our ability to quickly and visually communicate is becoming increasingly important The book provides the reader with a ready reference to learn about map creation and interpretation and to help them better interact with and construct maps There are several software systems available that focus on maps and mapping but no single resource that covers the fundamentals of mapping This book fills that need Presents unique reflections diversions inspections and translations to encourage critical thinking skills Includes a companion site to enhance the reflections diversions inspections and translations with additional resources Provides examples and discussions from seasoned natural resource professionals with over 80 years of combined professional experience

Smithsonian Atlas of Space Roger D. Launius,2024-10-29 Journey to the farthest corners of the universe in this visually stunning coffee table atlas by the former chief historian of NASA 300 maps and illustrations tell the incredible story of the past present and future of the universe and space exploration Navigate the Solar System the Milky Way and beyond with 300 magnificent charts illustrations and photographs This large format atlas makes the immense universe feel more intimate with striking full page spreads and engaging text Former chief historian of NASA Roger D Launius offers important perspective on the trajectory of space exploration and its achievements covering topics like ancient ideas of the cosmos the evolution of galaxies the search for extraterrestrial intelligence investigating the inner and outer solar system and human migration to the Moon and to Mars The book includes Full page and full spread historical scientific cosmology and specially commissioned maps Amazing photos from NASA s archives and stunning new artwork Biographical sidebars highlighting important people involved in the search for knowledge about the universe from Galileo to Nancy Grace Roman to Subrahmanyan Chandrasekhar With the growing market for space tourism space exploration verges on a new era and this book looks toward the future to include conceptions of futuristic space activities The marvelous collection of maps provide visual reference to better understand science and humanity s place in the universe Absorbing and exquisitely detailed Smithsonian Atlas of Space is a showstopping journey through the cosmos

Planetary Ring Systems Matthew S. Tiscareno,Carl D. Murray,2018-03-22 Planetary rings are among the most intriguing structures of our solar system and have fascinated generations of astronomers Collating emerging knowledge in the field this volume reviews our current understanding of ring systems with reference to the rings of Saturn Uranus Neptune and more Written by leading experts the history of ring research and the basics of ring particle orbits is followed by a review of the known planetary ring systems All aspects of ring system science are described in detail including specific dynamical processes types of structures thermal properties and their origins and investigations using computer

simulations and laboratory experiments The concluding chapters discuss the prospects of future missions to planetary rings the ways in which ring science informs and is informed by the study of other astrophysical disks and a perspective on the field's future Researchers of all levels will benefit from this thorough and engaging presentation **Exoplanets:**

Compositions, Mineralogy, Evolution Natalie R. Hinkel, Keith D. Putirka, Siyi Xu, 2024-09-02 The focus for RiMG volume 90 is on rocky exoplanets because the search for truly Earth-like planets is of special interest The goal is to motivate communication between the disciplines so as to make the best use possible of existing data and data yet to be collected by the James Webb and the Nancy Grace Roman Space Telescopes since the astronomy community is gathering data on stars and exoplanets at an accelerating rate Such data now include exoplanet size and mass i.e. density as well as their atmospheric compositions which are collectively telltale of mineralogy and evolution Much of what is published may still fall in the realm of educated speculation but our conjectures are metamorphosing into testable hypotheses There is now a remarkably large amount of astronomical data with even more on the way that geochemists and petrologists can make much use of But just as astronomers may benefit from geologic insights geologists need our colleagues in astronomy to help interpret their data and their underlying implications to better understand its astronomical context Our hopes for this volume will be fulfilled if readers initiate their own analyses of what at present may seem like novel or unusual data and if new collaborations between academic departments and subfields are forged *Catalog of the United States Geological Survey*

Library, 1974 **The World of Learning 1978-79**, 1978 **Particle Physics Reference Library** Christian W. Fabjan, Herwig Schopper, 2020-09-01 This second open access volume of the handbook series deals with detectors large experimental facilities and data handling both for accelerator and non-accelerator based experiments It also covers applications in medicine and life sciences A joint CERN Springer initiative the Particle Physics Reference Library provides revised and updated contributions based on previously published material in the well-known Landolt Boernstein series on particle physics accelerators and detectors volumes 21A B1 B2 C which took stock of the field approximately one decade ago Central to this new initiative is publication under full open access **The Volume Library** Abram Royer Brubacher, 1923

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