



HIGHLIGHTS OF CHINA'S SPACE SCIENCE THREE-PHASE DEVELOPMENT ROAD MAP

FIRST PHASE UP TO 2027

China will focus on **China Space Station** operation, implementing the **manned lunar exploration project**, and the **fourth phase of its lunar exploration program** as well as the **planetary exploration project**. **Five to eight space science satellite missions** will be approved during the period.

SECOND PHASE 2028-2035

China will continue to operate the **China Space Station**, implement scientific missions such as **manned lunar exploration** and the **international lunar research station**, carry out **about 15 space science satellite missions**, and attain world-leading original achievements.

THIRD PHASE 2036-2050

China will launch **more than 30 space science missions**, reaching a world-leading level in important fields.

Space Science In China

Ji Wu



Space Science In China:

Space Science in China Wen-Rui Hu, 1997-08-20 Space science in China is one of the most active areas in modern science and China has played a dynamic and steadily increasing role in this field since the 1960s Until recently however activity in China was a mystery to the rest of the world With the commercial importance of space and the fact that space is now used as a laboratory to carry out various experiments China has recently emerged as an important international competitor Space Science in China provides a clear understanding of the latest research and progress in such wide ranging areas as the development and research in solar terrestrial science space astronomy geoscience remote sensing microgravity science and life science Calling Taikong: A Strategy Report and Study of China's Future Space Science Missions Ji Wu, 2017-11-16

This book describes the status quo of space science in China details the scientific questions to be addressed by the Chinese space science community in 2016 2030 and proposes key strategic goals space science programs and missions the roadmap and implementation approaches Further it explores the supporting technologies needed and provides an outlook of space science beyond the year 2030 Taikong means outer space in Chinese and space science is one of the most important areas China plans to develop in the near future This book is authored by Ji Wu a leader of China's space science program together with National Space Science Center Chinese Academy of Sciences a leading institute responsible for planning and managing most of China's space science missions It also embodies the viewpoints shared by many space scientists and experts on future space science development Through this book general readers and researchers alike will gain essential insights into the current developments and future prospects of space science in China Government decision makers will also find the book a useful reference for strategies and planning in the field of space science *Space Science & Technology in China: A Roadmap to 2050* Huadong Guo, Ji Wu, 2010-08-09

As one of the eighteen field specific reports comprising the comprehensive scope of the strategic general report of the Chinese Academy of Sciences this sub report addresses long range planning for developing science and technology in the field of space science They each craft a roadmap for their sphere of development to 2050 In their entirety the general and sub group reports analyze the evolution and laws governing the development of science and technology describe the decisive impact of science and technology on the modernization process predict that the world is on the eve of an impending S T revolution and call for China to be fully prepared for this new round of S T advancement Based on the detailed study of the demands on S T innovation in China's modernization the reports draw a framework for eight basic and strategic systems of socio economic development with the support of science and technology work out China's S T roadmaps for the relevant eight basic and strategic systems in line with China's reality further detail S T initiatives of strategic importance to China's modernization and provide S T decision makers with comprehensive consultations for the development of S T innovation consistent with China's reality Supported by illustrations and tables of data the reports provide researchers government officials and entrepreneurs with guidance concerning research directions

the planning process and investment Founded in 1949 the Chinese Academy of Sciences is the nation's highest academic institution in natural sciences Its major responsibilities are to conduct research in basic and technological sciences to undertake nationwide integrated surveys on natural resources and ecological environment to provide the country with scientific data and consultations for government's decision making to undertake government assigned projects with regard to key S T problems in the process of socio economic development to initiate personnel training and to promote China's high tech enterprises through its active engagement in these areas

Developing Basic Space Science World-Wide Willem Wamsteker, Rudolf Albrecht, Hans J. Haubold, 2005-12-28 J Andersen Niels Bohr Institute for Astronomy Physics and Geophysics Astronomical Observatory Copenhagen ja astro ku dk The development of astronomy worldwide begins at the roots Already from childhood humans of all nations and civilizations seem to share an innate fascination with the sky Yet people in different regions of the world have vastly different possibilities for pursuing this interest In wealthy industrialised societies the way is open to a school or higher education in science possibly leading to a career in astronomy or basic or applied space science for the benefit of the country as well as the individual In other regions neither the financial nor the trained human resources are sufficient to offer that avenue to the future of the young generation or those intellectual resources to the development of their country This book addresses ways and means by which these obstacles can be if not fully overcome then at least significantly reduced

Space Science & Technology in China Ji Wu, 2010 *China's e-Science Blue Book 2018* Chinese Academy of Sciences, Cyberspace Administration of China, Ministry of Education, Ministry of Science and Technology, Chinese Academy of Social Sciences, National Natural Science Foundation, Chinese Academy of Agricultural Sciences, 2019-11-19 This book is jointly compiled by Chinese Academy of Sciences Cyberspace Administration of China Ministry of Education of the People's Republic of China Ministry of Science and Technology of the People's Republic of China Chinese Academy of Social Sciences National Natural Science Foundation of China and Chinese Academy of Agricultural Sciences Over the past several years Chinese scholars have contributed numerous research works on the development of Chinese scientific information and technology and produced a range of outstanding achievements Focusing on the main topic of e Science this book explores the forefront of science and technology around the globe the major demands in China and the main fields in China's economic development Furthermore it reviews the major achievements and the typical cases in China's e Science research It provides a valuable reference source for future technological innovations and will introduce researchers and students in the area of e Science to the latest results in China

China's Space Programme S. Chandrashekar, 2022-05-05 This book comprehensively covers the history and current developments of space programme of China It presents the complete story of China's space programme from its origins through to present day activities on the International Space Station This monograph further discusses the role of China's space strategy in its emergence as a major power on the world stage The book also presents the context of China's space program within the

larger narrative of international space development The book binds together the diverse political military economic and technology aspects into a coherent understanding and explains their role in the establishment and growth of Chinese space programme Given the contents this book will be a valuable source of information for students researchers and historians in the area of space studies

Science Progress in China Lu Yongxiang,2006-04-07 Today China is in a critical period of development facing a series of challenges such as optimizing the economic structure rationalizing the use of resources protecting the ecological environment eradicating poverty and fostering coordinated development of the whole society These challenges can not be comprehensively address without the integrated development of science and technology This book takes an active part in international cooperation for promoting the development of science and technology and the progress of human civilization In Science Progress in China Chinese scientists have outlined the development and accomplishments across a spectrum of science over the past 50 years Scientific achievements discussed include the first synthesis of crystalline bovine insulin the publication of the diagram of rice genes and much more Promotes the development of science and education with emphasis placed on cultivating and nurturing scientific talents Discusses Chinese mathematics engineering achievements and the science and technology strategies and policies Provides insights in the progress of crop genetics and breeding Offers an analysis of the development of the population and the effects of reproductive medicine

China's Strategy in Space Stacey Solomone,2013-06-12 This book addresses why China is going into space and provides up to date information on all aspects of the Chinese Space Program in terms of launch vehicles launch sites and infrastructure crew vehicles for space exploration satellite applications and scientific exploration capabilities Beyond mere capabilities it is important to understand how Chinese aerospace leaders think how they make decisions and what their ultimate goal is during their space endeavors What are Chinese intentions in space To what extent does culture and ethics influence Chinese strategic decision making within the highest levels of the aerospace industrial complex This book examines these questions and offers four potential scenarios on where the Chinese space program is headed based on this new perspective of understanding China's space goals This book is not only required reading for policy makers and military leaders in the US government but also for the general population students and professionals interested in truly understanding the reasons behind what the Chinese are doing in space

Introduction to Space Science Ji Wu,2021-11-09 This book highlights the technological and managerial fundamentals and frontier questions of space science Space science is a new interdisciplinary and comprehensive subject that takes spacecraft as the main tools to study the planet Earth the solar terrestrial space the solar system and even the whole universe to answer significant questions covering the formation and evolution of the solar system and the universe the origin and evolution of life and the structure of the material The book introduces major scientific questions in various branches of space science and provides related technological and managerial knowledge It also discusses the necessity of international cooperation and elaborates on the strategic planning of space science in China The

book can be used as a reference book or textbook for scientists engineers college students and the public participating in space science programs

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