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Concepl Physical Science Explorations Review
Over 200 cutting-edge products and research achievements focused on human-centered Society 5.0 of the future The Government of Japan's Cabinet Office announced that it ...

Cabinet Office to Organize Society 5.0 Expo to Showcase Japan's Advanced Technologies and Achievements
The two companies will work together to come up with solutions that use machine learning and artificial intelligence to help accelerate innovation in R&D.

ACD/Labs, Science Data Experts establish AI partnership
Prof. DU Jiangfeng and his colleges from USTC set the most stringent laboratory constraint on the exotic spin- and velocity-dependent interaction at the micrometer scale. It's a graceful combination ...

Researchers improve lab constraint on exotic spin interaction
At the NESF, SSERVI presents awards as a means of honoring key individuals in the community: The Eugene Shoemaker Medal for lifetime scientific achievement, ...

2021 NASA Exploration Science Awards
In this time of transition, we□re back with our annual STAT summer book list □ and this time we□ve thrown podcasts in the mix too.

The 36 best books and podcasts on health and science to check out this summer

These interactive explorations ... science topics, make it highly rewarding to learn a new skill and concept or brush up on subject matter that's collected dust over the years. Want to review ...

Learn to think like a genius with Brilliant
This is the second guest post discussing Abigail Shrier's Irreversible Damage: The Transgender Craze Seducing Our Daughters solicited from experts in transgender medical care. In this p ...

Irreversible Damage to the Trans Community: A Critical Review of Abigail Shrier's book Irreversible Damage (Part One)
The science of happiness has always been inextricably linked to eugenics. Modern positive psychology is no different.

'Never Look on the Dark Side': The Science of Positivity from Early Eugenics to Today
The stories of string theorist Marianne and beekeeper Roland are told forwards, backwards and sideways as we explore their theatrical multiverse ...

Constellations review – a stellar revival for Nick Payne's high-concept romance
Therefore, exploration of new magnetic topological semimetals is of great importance. Recently, researchers from the High Magnetic Field Laboratory of the Hefei Institutes of Physical Science ...

Researchers resolve magnetic structures of different topological semimetals
Research in science is a harmonious blend of beautiful 'imagery' and 'pure reasoning'. The great Danish Physicist Neils Bohr once wrote, "when it comes to atoms, language can be used only as in poetry ...

The Role Of Imagery In Science
Forgetting allows us to adapt and improvise, and sleep is key to deleting extraneous cortical information. We dream in order to forget.

'Forgetting' Review: The Balm of Oblivion
Ockham's exploration of the philosophical concept ... "the only physical theories that we are willing to accept are the beautiful ones." But defining what is "beautiful" in science is as ...

As science advances, does Ockham's Razor still apply?
The Shanghai Astronomy Museum, the world's largest of its kind, has started trial operation to showcase humankind's unremitting efforts throughout history to explore the universe and China's latest ...

Shanghai Astronomy Museum showcases humankind's unremitting efforts in space exploration

Good Luck #1 is a frantic and fun mindbender of a comic book built on psychedelic concepts ... an era where science has the ability to quantify and even isolate Luck in physical form.

Good Luck #1 Advance Review: The Finest Mind-Bending Comics Storytelling of Today
At this point, the widespread understanding is that the next space station will be a private sector endeavor while NASA will focus on space science and exploration beyond ... Roger Launius described ...

Before you go, Administrator Nelson
Levenson's book, on the other hand, is a highly detailed exploration of a particular ... we've met a few times at science-writing things, and follow each other on Twitter).

Book Review: Two Books About Money
In 'Seek You,' Kristen Radtke melds social science and personal anecdotes with hauntingly beautiful imagery, making the lonely feel less alone.

Review: Feeling lonely? Join the club with an intense new graphic memoir
The Department of Veterans Affairs completed a strategic review of its electronic health record modernization program and Jon Rychalski, VA's chief financial officer, told lawmakers Thursday that the ...

Jon Rychalski: VA to Conduct Enterprisewide IT, Physical Infrastructure Review for EHR Program
Chicory: A Colorful Tale is a gorgeous picture book adventure that tackles the highs and lows of being creative through heartfelt storytelling & clever puzzles.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Conceptual Physical Science, Fifth Edition, takes learning physical science to a new level by combining Hewitt's leading conceptual approach with a friendly writing style, strong integration of the sciences, more quantitative coverage, and a wealth of media resources to help professors in class, and students out of class. It provides a conceptual overview of basic, essential topics in physics, chemistry, earth science, and astronomy with optional quantitative coverage.

Both the Presidentâ□□s commission on how to implement the Presidentâ□□s space exploration initiative and Congress asked the NRC undertake an assessment and review of the science proposed to be carried out under the initiative. An initial response to that request was the NRC February 2005 report, Science in NASAâ□□s Vision for Space Exploration. While that reportâ□□s preparation, NASA created capabilities and strategy roadmapping efforts which became the object of the next phase of the NRC review. The new NASA administrator modified that

NASA activity resulting in changes in the NRC review effort. This report provides a review of six science strategy roadmaps: robotic and human exploration of Mars; solar system exploration; universe exploration; search for earth-like planets; earth science and applications from space; and sun-earth system connection. In addition, an assessment of cross-cutting and integration issues is presented.

Teleportation, time machines, force fields, and interstellar space ships□the stuff of science fiction or potentially attainable future technologies? Inspired by the fantastic worlds of Star Trek, Star Wars, and Back to the Future, renowned theoretical physicist and bestselling author Michio Kaku takes an informed, serious, and often surprising look at what our current understanding of the universe's physical laws may permit in the near and distant future.Entertaining, informative, and imaginative, Physics of the Impossible probes the very limits of human ingenuity and scientific possibility.

In February 2004, the President announced a new goal for NASA; to use humans and robots together to explore the Moon, Mars, and beyond. In response to this initiative, NASA has adopted new exploration goals that depend, in part, on solar physics research. These actions raised questions about how the research agenda recommended by the NRC in its 2002 report, The Sun to the Earth and Beyond, which did not reflect the new exploration goals, would be affected. As a result, NASA requested the NRC to review the role solar and space physics should play in support of the new goals. This report presents the results of that review. It considers solar and space physics both as aspects of scientific exploration and in support of enabling future exploration of the solar system. The report provides a series of recommendations about NASA's Sun-Earth Connections program to enable it to meet both of those goals.

To meet the objectives of the Vision for Space Exploration (VSE), NASA must develop a wide array of enabling technologies. For this purpose, NASA established the Exploration Technology Development Program (ETDP). Currently, ETDP has 22 projects underway. In the report accompanying the House-passed version of the FY2007 appropriations bill, the agency was directed to request from the NRC an independent assessment of the ETDP. This interim report provides an assessment of each of the 22 projects including a quality rating, an analysis of how effectively the research is being carried out, and the degree to which the research is aligned with the VSE. To the extent possible, the identification and discussion of various cross-cutting issues are also presented. Those issues will be explored and discussed in more detail in the final report.

In response to requests from Congress, NASA asked the National Research Council to undertake a decadal survey of life and physical sciences in microgravity. Developed in consultation with members of the life and physical sciences communities, the guiding principle for the study is to set an agenda for research for the next decade that will allow the use of the space environment to solve complex problems in life and physical sciences so as to deliver both new knowledge and practical benefits for humankind as we become a spacefaring people. The project's statement of task calls for delivery of two books--an interim report and a final survey report. Although the development of specific recommendations is deferred until the final book, this interim report does attempt to identify programmatic needs and issues to guide near-term decisions that are critical to strengthening the organization and management of life and physical sciences research at NASA.

For thirty years the NASA microgravity program has used space as a tool to study fundamental flow phenomena that are important to fields ranging from combustion science to biotechnology. This book assesses the past impact and current status of microgravity research programs in combustion, fluid dynamics, fundamental physics, and materials science and gives recommendations for promising topics of future research in each discipline. Guidance is given for setting priorities across disciplines by assessing each recommended topic in terms of the probability of its success and the magnitude of its potential impact on scientific knowledge and understanding; terrestrial applications and industry technology needs; and NASA technology needs. At NASAâ□□s request, the book also contains an examination of emerging research fields such as nanotechnology and biophysics, and makes recommendations regarding topics that might be suitable for integration into NASAâ□□s microgravity program.

This report is the summary of a workshop held in May 2003 by the Space Studies Board's Committee on Solar and Space Physics to synthesize understanding of the physics of the outer heliosphere and the critical role played by the local interstellar medium (LISM) and to identify directions for the further exploration of this challenging environment.

In January 2004, President George W. Bush announced the Vision for Space Exploration (VSE), which instructed NASA to "Extend human presence across the solar system, starting with a human return to the Moon by the year 2020, in preparation for human exploration of Mars and other destinations," among other objectives. As acknowledged in the VSE, significant technology development will be necessary to accomplish the goals it articulates. NASA's Exploration Technology Development Program (ETDP) is designed to support, develop, and ultimately provide the necessary technologies to meet the goals of the VSE. This book, a review of the ETDP, is broadly supportive of the intent and goals of the VSE, and finds the ETDP is making progress towards the stated goals of technology development. However, the ETDP is operating within significant constraints which limit its ability to successfully accomplish those goals-the still dynamic nature of the Constellation Program requirements, the constraints imposed by a limited budget, the aggressive time scale of early technology deliverables, and the desire to fully employ the NASA workforce.

The original charter of the Space Science Board was established in June 1958, three months before the National Aeronautics and Space Administration (NASA) opened its doors. The Space Science Board and its successor, the Space Studies Board (SSB), have provided expert external and independent scientific and programmatic advice to NASA on a continuous basis from NASA's inception until the present. The SSB has also provided such advice to other executive branch agencies, including the National Oceanic and Atmospheric Administration (NOAA), the National Science Foundation (NSF), the U.S. Geological Survey (USGS), the Department of Defense, as well as to Congress. Space Studies Board Annual Report 2017 covers a message from the chair of the SSB, David N. Spergel. This report also explains the origins of the Space Science Board, how the Space Studies Board functions today, the SSB's collaboration with other National Academies of Sciences, Engineering, and Medicine units, assures the quality of the SSB reports, acknowledges the audience and sponsors, and expresses the necessity to enhance the outreach and improve dissemination of SSB reports. This report will be relevant to a full range of government audiences in civilian space research - including NASA, NSF, NOAA, USGS, and the Department of Energy, as well members of the SSB, policy makers, and researchers.