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Exploration and Engineering: The Jet Propulsion Laboratory and the Quest for Mars by Erik M. Conway. English | ISBN: 1421416042, 1421421224 | 2015 | 416 pages | True PDF | 9 MB. Although the Jet Propulsion Laboratory in Pasadena, California, has become synonymous with the United States' planetary exploration during the past half century, its most recent focus has been on Mars.

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Nearly 200 undergraduates from more than 120 colleges and universities across the country joined Caltech for a virtual event that aimed to encourage students of color to pursue graduate studies in science and engineering. Held on October 17, FUTURE Ignited was hosted by more than 70 faculty, staff ...

Although the Jet Propulsion Laboratory in Pasadena, California, has become synonymous with the United States' planetary exploration during the past half century, its most recent focus has been on Mars. Beginning in the 1990s and continuing through the Mars Phoenix mission of 2007, JPL led the way in engineering an impressive, rapidly evolving succession of Mars orbiters and landers, including roving robotic vehicles whose successful deployment onto the Martian surface posed some of the most complicated technical problems in space flight history. In *Exploration and Engineering*, Erik M. Conway reveals how JPL engineers' creative technological feats led to major breakthroughs in Mars exploration. He takes readers into the heart of the lab's problem-solving approach and management structure, where talented scientists grappled with technical challenges while also coping, not always successfully, with funding shortfalls, unrealistic schedules, and managerial turmoil. Conway, JPL's historian, offers an

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insider's perspective into the changing goals of Mars exploration, the ways in which sophisticated computer simulations drove the design process, and the remarkable evolution of landing technologies over a thirty-year period. "A masterpiece of research and writing."—*Quest: History of Spaceflight Quarterly* "A 'must' for any reader of modern astronomy who wants insights into how the lab conducts its research, solves problems, and handle[s] technological challenges."—*Midwest Book Review* "A great tale of ambition, mishap and recovery, building on extensive archival research and interviews with JPL managers, scientists and engineers, to deliver a detailed overview of each mission's feats and failures . . . Exploration and Engineering is a great book for everyone seriously interested in the struggles and achievements of JPL as NASA's centre for Mars exploration."—*Sky at Night* Erik M. Conway is a historian of science and technology at the Jet Propulsion Laboratory, California Institute of Technology. He is the author of *Atmospheric Science at NASA: A History*.

Historians, along with participants in current aerospace research programs, will gain valuable perspective on the interaction of politics and technology.

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Bibliography of astronautics information - engineering equipment and processes adaptable to lunar and planetary exploration. -- (NTRS site).

What it's like to explore Mars from Earth: How the Mars rovers provide scientists with a virtual experience of being on Mars. Geologists in the field climb hills and hang onto craggy outcrops; they put their fingers in sand and scratch, smell, and even taste rocks. Beginning in 2004, however, a team of geologists and other planetary scientists did field science in a dark room in Pasadena, exploring Mars from NASA's Jet Propulsion Laboratory (JPL) by means of the remotely operated Mars Exploration Rovers (MER). Clustered around monitors, living on Mars time, painstakingly plotting each movement of the rovers and their tools, sensors, and cameras, these scientists reported that they felt as if they were on Mars themselves, doing field science. The MER created a virtual experience of being on Mars. In this book, William Clancey examines how the MER has changed the nature of planetary field science. Drawing on his extensive observations of scientists in the field and at the JPL, Clancey investigates how the design of the rover mission enables field science on Mars, explaining how the scientists and rover engineers manipulate the vehicle and why the programmable tools and analytic instruments work so well for them. He shows how the scientists felt not as if they were issuing commands to a machine but rather as if they were working on the red planet, riding together in the rover on a voyage of discovery. Learn more about the book here: [http://www.youtube.com/watch?v=oZQSWSZnTYs&feature=youtube\\_gdata](http://www.youtube.com/watch?v=oZQSWSZnTYs&feature=youtube_gdata)

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From the beginning of the Space Age the United States, followed soon by other nations, began an impressive effort to learn about the planets of the solar system. The data collected and analyzed by scientists has revolutionized understanding of our neighbors. These efforts also captured the imagination of people from all backgrounds like nothing else except the Apollo lunar missions. Through a succession of analytical essays on major aspects of the history of robotic planetary exploration, this book opens new vistas in the understanding of the development of planetary science in the Space Age.

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