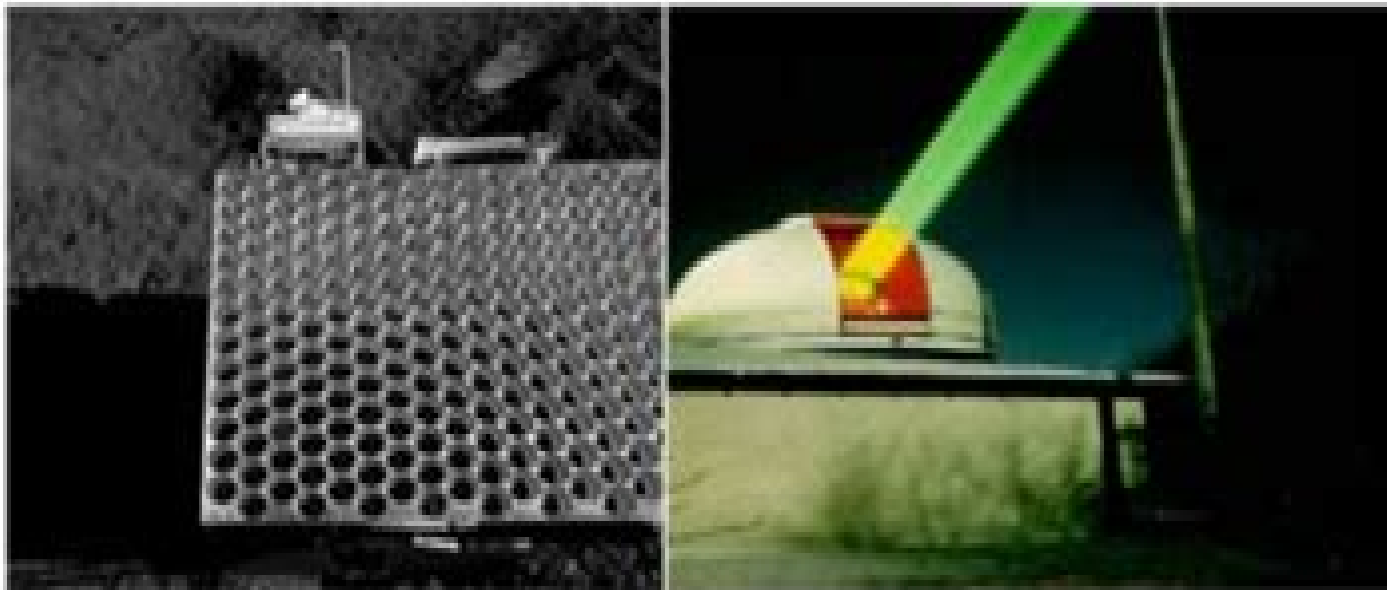


Lunar Laser Ranging

- Lunar laser telemetry consists in determining the round-trip travel time of the light between a transmitter on the Earth and a reflector on the Moon, which is an equivalent measurement of the distance between these two points.
- The principle of Lunar Laser Ranging is to fire laser pulses towards the target reflectors on the Moon, to receive back localised and recognizable signals and to measure the duration of the round-trip travel of the light.



Scientific Applications Of Lunar Laser Ranging

JE Gale



Scientific Applications Of Lunar Laser Ranging:

Scientific Applications of lunar laser ranging, 1977

Scientific Applications of Lunar Laser Ranging J.D.

Mulholland, 2012-12-06 The progress of science during the past centuries has been in some measure energized by the development of new technologies People are no more intelligent now than they were five centuries ago or indeed five millenia ago The differences are in the pool of past experience and the availability of means for manipulating the physical and mental environment Until fairly recently the development of new technologies in astronomy and geodesy has served primarily either to broaden the scope of phenomena that could be studied or to improve the precision with which one could examine already studied phenomena There seemed to be no likelihood that a situation could arise similar to that in particle physics where the uncertainty principle indicates that the observation of the state of an object alters that state affecting the observation Indeed we have not yet reached that point but certain of the new techniques have introduced a degree of complication and inter dependence perhaps not previously encountered in the macro sciences When observational capability is so fine that the data can be corrupted by the tidal motions of the instruments for example then there are a myriad of physical effects that must be considered in analyzing the data the happy aspect of this is that the data can be used to study exactly these same effects The complication does not however extend only to predictive computations against which the data are compared

Scientific Applications of Lunar Laser Ranging J. Derral Mulholland, 1977

SCIENTIFIC APPLICATIONS OF LUNAR LASER RANGING- PROCEEDINGS OF A SYMPOSIUM- INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS- INTERNATIONAL ASTRONOMICAL UNION- COSPAR- THE ICSU COMMITTEE ON SPACE RESEARCH.

, *Literature 1977, Part 2* Siegfried Böhme, Ute Esser, Walter Fricke, Inge Heinrich, Dietlinde Krahn, Lutz D. Schmadel, Gert Zech, 2013-03-14 Astronomy and Astrophysics Abstracts which has appeared in semi annual volumes since 1969 is devoted to the recording summarizing and indexing of astronomical publications throughout the world It is prepared under the auspices of the International Astronomical Union according to a resolution adopted at the 14th General Assembly in 1970 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months This time interval is near to that achieved by monthly abstracting journals compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user Volume 20 contains literature published in 1977 and received before February 20 1978 some older literature which was received late and which is not recorded in earlier volumes is also included We acknowledge with thanks contributions to this volume by Dr J Bouška Prague who surveyed journals and publications in Czech and supplied us with abstracts in English and by Prof P Brosche Bonn who supplied us with literature concerning some border fields of astronomy

Quantum Optics, Experimental Gravity, and Measurement Theory Pierre Meystre, Marian O.

Scully, 2012-12-06 This volume contains the Proceedings of the NATO Advanced Study Institute Quantum Optics and Experimental General Relativity which was held in Bad Windsheim Federal Republic of Germany from August 16 to 29 1981 At first glance one might wonder why a meeting should cover these two topics and a good bit of quantum measurement theory as well all of which seem to be completely unrelated The key to what one may call this grand unification lies in the effort underway in a number of laboratories around the world to detect gravitational radiation Present research is pursuing the development of two types of detectors laser interferometers and resonant bar detectors Because the signals that one is trying to measure are so weak the quantum mechanical nature of the detectors comes into play The analysis of the effects which result from this is facilitated by the use of techniques which have been developed in quantum optics over the years This analysis also forces one to confront certain issues in the quantum theory of measurement The laser interferometer detectors using as they do light are clearly within the realm of subjects usually considered by quantum optics For example the analysis of the noise present in such a detector can make use of the many techniques which have been developed in quantum optics

Scientific and Technical Aerospace Reports, 1994 **Time and the Earth's Rotation** D.D.

McCarthy, J.D.H. Pilkington, 2012-12-06 IAU Symposium No 82 Time and the Earth's Rotation met to discuss modern research in the field of the rotation of the Earth with particular emphasis on the role of new observational techniques in this work The use of these techniques has prompted a new look at the definitions of the traditional reference systems and the concepts of the rotation of the Earth around its center of mass Specific topics discussed were time polar motion reference systems conventional radio interferometry very long baseline interferometry VLBI Doppler satellite methods satellite laser ranging lunar laser ranging and geophysical research concerning the Earth's rotation Improvement in the accuracy of the observations is a key to possible solutions of the many unsolved problems remaining in this field It appears that such improvement using both classical and new techniques is forthcoming in the near future This will surely contribute to a better understanding of some of the long standing questions concerning the rotation of the Earth around its center of mass and lead to an improved knowledge of the rotating deformable Earth This volume contains the papers presented at IAU Symposium No 82 as well as the discussions provoked by these papers It is hoped that it captures the principal points of the meeting and that it will contribute not only to a better understanding of existing problems but also to future research in time and the Earth's rotation

Applications of Geodesy to Geodynamics Helmut Moritz, Ohio State University. Department of Geodetic Science, Urho Antti Uotila, Richard H. Rapp, 1978 **Applications of Geodesy to Geodynamics** Ivan I.

Mueller, 1978 *Application of Space Technology to Crustal Dynamics and Earthquake Research*, 1978 *Contributions of Space Geodesy to Geodynamics* David E. Smith, Donald L. Turcotte, 1993-01-11 Published by the American Geophysical Union as part of the Geodynamics Series Volume 24 There are times in the history of a science when the evolving technology has been combined with a singleness of purpose to make possible the next great step For space geodesy the decade of the 1980s

was one of those times Initiated in the early 1980s the NASA Crustal Dynamics Project CDP a global venture of unprecedented proportions exploited new technologies to confirm and refine tectonic theories and to advance geodynamics The highlights of the efforts of scientists and engineers from some 30 countries are contained in the 54 papers collected in three volumes which are dedicated to the memory of Edward A Ted Flinn the former Chief Scientist of the NASA

Geodynamics Program **Gravity and Low-frequency Geodynamics** Roman Teisseyre,1989 *Lunar and Planetary Science* ,1996 Astrodynamics Pini Gurfil,Edward Belbruno,2008 Journal of Geomagnetism and Geoelectricity ,1993

LAGEOS Scientific Results ,1985 **Proceedings of the International Conference on Lasers '78** Vincent J. Corcoran,1979 **The Motion of the Moon**, Alan H. Cook,1988 The passage of the Moon across the night sky has long been a familiar but mysterious sight to man Newton with his laws of motion and inverse square law of gravity was able to predict all the planetary orbits at least in principle However an exact solution of the Moon s motion in the gravitational fields of the Sun and Earth defeated Newton and all his successors The Motion of the Moon is a comprehensive account of the theoretical developments right up to the present day All astronomers physicists and mathematicians interested in the Moon will find this a very stimulating book Multiple Taper Spectral Analysis of Earth Rotation Data Nancy Ellen King,1990

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