



Natural Hazards and Disasters

Chapter 17

Impacts of Asteroids and Comets

Hazards Due To Comets And Asteroids

Mikhail Ya. Marov, Hans Rickman



Hazards Due To Comets And Asteroids:

Hazards Due to Comets and Asteroids Tom Gehrels, Mildred Shapley Matthews, A. M. Schumann, 1994 In 1993 the U S Department of Defense declassified information dealing with frequent explosions in the upper atmosphere caused by meteoric impact It is estimated that impacts have occurred of a magnitude equivalent to the atomic bomb detonated at Hiroshima Not all such space voyagers meet their end in the atmosphere however huge craters attest to the bombardment of earth over millions of years and a major impact may have resulted in the extinction of dinosaurs An impact in Siberia near the beginning of this century proves that such events are not confined to geologic time Hazards Due to Comets and Asteroids marks a significant step in the attempt to come to grips with the threats posed by such phenomena It brings together more than one hundred scientists from around the world who draw on observational and theoretical research to focus on the technical problems related to all aspects of dealing with these hazards searching for and identifying hazardous comets and asteroids describing their statistics and characteristics intercepting and altering the orbits of dangerous objects and applying existent technologies rocket boosters rendezvous and soft landing techniques instrumentation to such missions The book considers defensive options for diverting or disrupting an approaching body including solar sails kinetic energy impacts nuclear explosives robotic mass drivers and various propulsion systems A cataclysmic impact posing a threat to life on Earth is a possibility that tomorrow s technology is capable of averting This book examines in depth the reality of the threat and proposes practical measures that can be initiated now should we ever need to deal with it Mitigation of Hazardous

Comets and Asteroids M. J. S. Belton, 2004-09-06 It is known that large asteroids and comets can collide with the Earth with severe consequences Although the chances of a collision in a person s lifetime are small collisions are a random process and could occur at any time This book collects the latest thoughts and ideas of scientists concerned with mitigating the threat of hazardous asteroids and comets It reviews current knowledge of the population of potential colliders including their numbers locations orbits and how warning times might be improved The structural properties and composition of their interiors and surfaces are reviewed and their orbital response to the application of pulses of energy is discussed Difficulties of operating in space near or on the surface of very low mass objects are examined The book concludes with a discussion of the problems faced in communicating the nature of the impact hazard to the public

Hazards Due to Comets and Asteroids Tom Gehrels, 2021-11-30 In 1993 the U S Department of Defense declassified information dealing with frequent explosions in the upper atmosphere caused by meteoric impact It is estimated that impacts have occurred of a magnitude equivalent to the atomic bomb detonated at Hiroshima Not all such space voyagers meet their end in the atmosphere however huge craters attest to the bombardment of earth over millions of years and a major impact may have resulted in the extinction of dinosaurs An impact in Siberia near the beginning of this century proves that such events are not confined to geologic time Hazards Due to Comets and Asteroids marks a significant step in the attempt to come to grips with the threats posed by such

phenomena It brings together more than one hundred scientists from around the world who draw on observational and theoretical research to focus on the technical problems related to all aspects of dealing with these hazards searching for and identifying hazardous comets and asteroids describing their statistics and characteristics intercepting and altering the orbits of dangerous objects and applying existent technologies rocket boosters rendezvous and soft landing techniques instrumentation to such missions The book considers defensive options for diverting or disrupting an approaching body including solar sails kinetic energy impacts nuclear explosives robotic mass drivers and various propulsion systems A cataclysmic impact posing a threat to life on Earth is a possibility that tomorrow's technology is capable of averting This book examines in depth the reality of the threat and proposes practical measures that can be initiated now should we ever need to deal with it

Hazards Due to Comets and Asteroids, 1994 *Comet and Asteroid Impact Hazards on a Populated Earth* John S. Lewis, 2000 Disk contains HAZARDS version 5.5 designed to predict asteroid or comet impacts with the Earth

Catastrophic Events Caused by Cosmic Objects Vitaly Adushkin, Ivan Nemchinov, 2007-10-09 An asteroid or comet will inevitably strike the Earth some day and potentially cause great destruction This volume considers hazards due to collisions with cosmic objects particularly in light of recent investigations of impacts by the authors Each chapter written by an expert contains an overview of an aspect and new findings in the field Coverage describes and numerically estimates the main hazardous effects

Collisional Processes in the Solar System Mikhail Ya. Marov, Hans Rickman, 2012-12-06 The exploration of our Solar System is rapidly growing in importance as a scientific discipline During the last decades great progress has been achieved as the result of space missions to planets and small bodies as asteroids and comets and improved remote sensing methods as well as due to refined techniques of laboratory measurements and a rapid progress in theoretical studies involving the development of various astrophysical and geophysical models These models are based in particular on the approach of comparative planetology becoming a powerful tool in revealing evolutionary processes which have been shaping the planets since their origin Comets and asteroids being identified as remnants of planetary formation serve as a clue to the reconstruction of Solar System history because they encapsulated the primordial material from which the planets were built up At the same time these interplanetary carriers of original matter and messengers from the past being triggered by dynamical processes well outside our neighboring space were responsible for numerous catastrophic events when impacting on the planets and thus causing dramatic changes of their natural conditions In the crossroads of astronomy and geophysics recent years have seen a growing understanding of the importance of collisional processes throughout the history of the Solar System and therefore the necessity to get more insight into the problem of interactions of planets and small bodies

The Dynamics of Small Bodies in the Solar System B.A. Steves, Archie E. Roy, 2013-06-29 The reader will find in this volume the Proceedings of the NATO Advanced Study Institute held in Maratea Acquafredda Italy between June 29 and July 12 1997 entitled THE DYNAMICS OF SMALL BODIES IN THE SOLAR SYSTEM A MAJOR KEY TO SOLAR

SYSTEM STUDIES This Advanced Study Institute was the latest in the Cortina series of NATO ASI s begun in the early 1970 s firstly under the directorship of Professor Victor Szebehely and subsequently under Professor Archie Roy All except the latest were held at the Antonelli Institute Cortina d Ampezzo Italy Many of those now active in the field made their first international contacts at these Institutes The Institutes bring together many of the brightest of our young people working in dynamical astronomy celestial mechanics and space science enabling them to obtain an up to date synoptic view of their subjects delivered by lecturers of high international reputation The proceedings from these institutes have been well received in the international community of research workers in the disciplines studied The present institute included 15 series of lectures given by invited speakers and some 45 presentations made by the other participants The majority of these contributions are included in these proceedings

Perilous Planet Earth Trevor Palmer, 2003-06-12 A readable account of the history of natural disasters throughout history

Comet/Asteroid Impacts and Human Society Peter T. Bobrowsky, Hans Rickman, 2007-06-10 Leading specialists in various disciplines were first invited to a multidisciplinary workshop funded by ICSU on the topic to gain a better appreciation and perspective on the subject of comet asteroid impacts as viewed by different disciplines This volume provides a necessary link between various disciplines and comet asteroid impacts

Frontiers of Space Risk Richard J. Wilman, Christopher J. Newman, 2018-06-13 CHOICE Recommended Title March 2019 This book brings together diverse new perspectives on current and emerging themes in space risk covering both the threats to Earth based activities arising from space events natural and man made and those inherent in space activity itself Drawing on the latest research the opening chapters explore the dangers from asteroids and comets the impact of space weather on critical technological infrastructure on the ground and in space and the more uncertain threats posed by rare hazards further afield in the Milky Way Contributors from a wide range of disciplines explore the nature of these risks and the appropriate engineering financial legal and policy solutions to mitigate them The coverage also includes an overview of the space insurance market engineering and policy perspectives on space debris and the sustainability of the space environment The discussion then examines the emerging threats from terrorist activity in space a recognition that space is a domain of war and the challenges to international cooperation in space governance from the nascent asteroid mining industry Features Discusses developments and risks relevant to the public and private sectors as access to the space environment expands Offers an interdisciplinary approach blending science technology and policy Presents a high level international focus with contributions from academics policy makers and commercial space consultants

Asteroids, Comets, Meteors 1993 A. Milani, Mario Badiale, A. Cellino, 2012-12-06 THE MEETING The IAU Symposium 160 ASTEROIDS COMETS METEORS 1999 has been held at Villa Carlotta in Belgirate on the shore of Lago Maggiore Italy from June 14 to June 18 1993 It has been organized by the Astronomical Observatory of Torino and by the Lunar and Planetary Institute of Houston It has been a very large meeting with 323 registered participants from 38 countries The scientific program included 29 invited reviews 106 oral

communications and 215 posters The subjects covered included all the aspects of the studies of the minor bodies of the solar system including asteroids comets meteors meteorites interplanetary dust with special focus on the interrelationships between these The meeting was structured as follows 5 morning plenary sessions have been devoted to invited reviews on 1 search programs 2 populations of small bodies 3 dynamics 4 physical observations and modelling 5 origin and evolution Two afternoon plenary sessions have been devoted to space missions to small bodies and to interrelationships between the different populations The afternoon parallel sessions have been devoted to dynamics of comets Toutatis Ida Gaspra physical processes in cometary comae and tails meteorites the cosmogonic message from cometary nuclei physics of asteroids the interplanetary dust complex comet nuclei meteors composition and material properties of comets dynamics of asteroids

Dynamics of Comets and Asteroids and Their Role in Earth History Shin Yabushita, Jacques Henrard, 2013-06-29 The last decade of this century has seen a renewed interest in the dynamics and physics of the small bodies of the Solar System Asteroids Comets and Meteors New observational evidences such as the discovery of the Edgeworth Kuiper belt refined numerical tools such as the symplectic integrators analytical tools such as semi numerical perturbation algorithms and in general a better understanding of the dynamics of Hamiltonian systems all these factors have converged to make possible and worthwhile the study over very long time spans of these minor objects Also the public the media and even some political assell blies have become aware that these minor objects of our planetary environnement could become deadly weapons Apparently they did have a role in Earth history and a role more ominous than predicting defeat or victory why not to batches of credulous rulers Remembering what may have happened to the dinosaurs but keeping all the discretion necessary to avoid creating irrational scares it may not be unwise or irrelevant to improve our knowledge of the physics and dynamics of these objects and to study in particular their interactions with our planet **Disaster Medicine** Gregory R. Ciottone, 2006-01-01

This new volume includes Individual Concepts and Events sections that provide information on the general approach to disaster medicine and practical information on specific disasters You ll also find an exhaustive list of chapters on the conceivable chemical and biologic weapons known today as well as strategies for the management of future events or possible scenarios for which there is no precedent **BOOK JACKET** *International Seminar on Nuclear War and Planetary Emergencies* Antonino Zichichi, 2001 Full Title Water OCo Pollution Biotechnology OCo Transgenic Plant Vaccine Energy Black Sea Pollution AIDS OCo Mother Infant HIV Transmission Transmissible Spongiform Encephalopathy Limits of Development OCo Megacities Missile Proliferation and Defense OCo Information Security Cosmic Objects Desertification Carbon Sequestration and Sustainability Climatic Changes Global Monitoring of Planet Mathematics and Democracy Science and Journalism Permanent Monitoring Panel Reports Water for Megacities Workshop Black Sea Workshop Transgenic Plants Workshop Research Resources Workshop Mother Infant HIV Transmission Workshop Sequestration and Desertification Workshop Focus Africa Workshop Contents Opening Session T D Lee K M B Siegbahn A Zichichi J K C Ma D Bodansky R G

Will W P T James C M Wilfert A D Lopez Water OCo Pollution A A Keller S M Hassanizadeh Biotechnology OCo Transgenic Plant Vaccine F Sala R X Fang J P Kraehenbuhl Energy J Ongena A Yu Gagarinski Pollution OCo Black Sea V I Mikhailov I Salihoglu AIDS OCo Mother Infant HIV Transmission G de Th r F Barre Sinoussi M F Rea H Pratomo Transmissible Spongiform Encephalopathy P Brown Limits of Development OCo Megacities W J Cosgrove K C Sivaramakrishnan J M Borthagaray Missile Proliferation and Defense OCo Information Security L Wood V Tsigichko A Kroutskikh A Lehmann A Piontkovsky Cosmic Objects W F Huebner A Cellino A F Cheng Desertification Carbon Sequestration and Sustainability N J Rosenberg Climatic Changes OCo Cosmic Objects Global Monitoring of Planet Mathematics and Democracy Science and Journalism T Dyson W M Washington R Walgate K C Sivaramakrishnan Permanent Monitoring Panel Reports K M B Siegbahn D Johnson R Ragaini Z Rudzikas G Palshin H Schubert J Pozela Megacities Workshop OCo Water as a Limit to Development W J Cosgrove J M Borthagaray A G Pozo G G Serra P F Ricci K C Sivaramakrishnan I A Amer Workshop on Environmental Impacts of Oil Pollution in the Black Sea R Ragaini V Mikhailov L Mirianashvili I Salihoglu K Thompson E Okandan D Dorogan Transgenic Plants as Vaccines Impact on Developing Countries Workshop G Levi C J Arntzen M Pezzotti J P Kraehenbuhl J K C Ma Z Eshhar Z K Xu R X Fang Research Resources Workshop W Sprigg P Uhler Mother Infant HIV Transmission Workshop G de Th r C M Wilfert H Pratomo M F Rea R ZetterstrAm D Birx Linking the Conventions Soil Carbon Sequestration and Desertification Control Workshop L Olsson Limits of Development Focus Africa C A Reynolds J F Kuka M Farah M Diop Readership Ecologists meteorologists biotechnologists AIDS researchers doctors physicists and social scientists Water-pollution - Proceedings Of The International Seminar On Nuclear War And Planetary Emergencies - 25th Session Richard C Ragaini,2001-07-19 Full Title Water Pollution Biotechnology Transgenic Plant Vaccine Energy Black Sea Pollution AIDS Mother Infant HIV Transmission Transmissible Spongiform Encephalopathy Limits of Development Megacities Missile Proliferation and Defense Information Security Cosmic Objects Desertification Carbon Sequestration and Sustainability Climatic Changes Global Monitoring of Planet Mathematics and Democracy Science and Journalism Permanent Monitoring Panel Reports Water for Megacities Workshop Black Sea Workshop Transgenic Plants Workshop Research Resources Workshop Mother Infant HIV Transmission Workshop Sequestration and Desertification Workshop Focus Africa Workshop **Asteroids, Meteors, Meteorites, and Comets** Nicholas Faulkner,2018-12-15 This fascinating text is a perfect companion for any student interested in a more authoritative source on the subject of asteroids meteors meteorites and comets Readers will learn following the Next Generation Science Standards in the area of the Earth and the solar system the scientific differences between these four celestial objects They ll also study their features compositions characteristics classifications and history of their observation This book is perfect for the student doing a report on the subject or one who is curious about the space sciences and would like detailed information instead of a general overview Comets II M. Festou,H. U. Keller,Harold A. Weaver,2004-11 The study of comets is a field that has seen tremendous advances in recent

years far surpassing the knowledge reflected in the original Comets volume published as part of the Space Science Series in 1982 This new volume with more than seventy contributing authors represents the first complete overview of comet science in more than a decade and contains the most extensive collection of knowledge yet assembled in the field Comets II situates comet science in the global context of astrophysics for the first time by beginning with a series of chapters that describe the connection between stars and planets It continues with a presentation of the formation and evolution of planetary systems enabling the reader to clearly see the key role played in our own solar system by the icy planetesimals that were the seeds of the giant planets and transneptunian objects The book presents the key results obtained during the 1990s in particular those collected during the apparition of the exceptional comets C Hyakutake and C Hale Bopp in 1996 1997 The latest results obtained from the in situ exploration of comets P Borrelly and P Wild 2 are also discussed in detail Each topic of is designed to be accessible to students or young researchers looking for basic yet detailed complete and accurate information on comet science With its emphasis on the origin of theories and the future of research Comets II will enable scientists to make connections across disciplinary boundaries and will set the stage for discovery and new understanding in the coming years

Large Meteorite Impacts and Planetary Evolution II Burkhard O. Dressler, Virgil L. Sharpton, 1999-01-01 Papers from the International Conference on Large Meteorite Impacts and Planetary Evolution September 1 through September 3 1997 Sudbury Ontario Asteroids IV Patrick Michel, Francesca E. DeMeo, William F. Bottke, 2015-12-31 More than forty chapters detail our current astronomical compositional geological and geophysical knowledge of asteroids as well as their unique physical processes and interrelationships with comets and meteorites Provided by publisher

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