

DISTURBING **THE SOLAR SYSTEM**



IMPACTS, CLOSE ENCOUNTERS,
AND COMING ATTRACTIONS

ALAN E. RUBIN

Disturbing The Solar System

Alan E. Rubin



Disturbing The Solar System:

Disturbing the Solar System Alan E. Rubin, 2021-11-09 The solar system has always been a messy place in which gravity wreaks havoc Moons form asteroids and comets crash into planets ice ages commence and dinosaurs disappear By describing the dramatic consequences of such disturbances this authoritative and entertaining book reveals the fundamental interconnectedness of the solar system and what it means for life on Earth After relating a brief history of the solar system Alan Rubin describes how astronomers determined our location in the Milky Way He provides succinct and up to date accounts of the energetic interactions among planetary bodies the generation of the Earth s magnetic field the effects of other solar system objects on our climate the moon s genesis the heating of asteroids and the origin of the mysterious tektites Along the way Rubin introduces us to the individual scientists including the famous the now obscure and the newest generation of researchers who have enhanced our understanding of the galactic neighborhood He shows how scientific discoveries are made he discusses the uncertainty that presides over the boundaries of knowledge as well as the occasional reluctance of scientists to change their minds even when confronted by compelling evidence This fresh historical perspective reveals science as it is an imperfect but self correcting enterprise Journeying to the frontiers of knowledge Rubin concludes with the exciting realm of astrobiology He chronicles the history of the search for life on Mars and describes cutting edge lines of astrobiological inquiry including panspermia the possible transfer of life from planet to planet the likelihood of technologically advanced alien civilizations in our galaxy and our probable responses to alien contact Authoritative and up to date but also entertaining and fluidly written Disturbing the Solar System will appeal to any reader who has ever picked up a rock or gazed at the moon with a sense of wonder

Elements of Meteorology John H. Tice, 1875 Hand-book of Natural Philosophy and Astronomy Dionysius Lardner, 1853 **Hand-books of Natural Philosophy and Astronomy** Dionysius Lardner, 1854 *The Astronomical Journal*, 1892 **Popular Astronomy ... First series ... From "The Museum of Science and Art." With ... illustrations** Dionysius Lardner, 1874 **Handbook of Astronomy** Dionysius Lardner, 1875 **The Theosophist**, 1924 **THE CORHILL MAGAZINE , VOL XXXII**, 1875 **An Introductory Treatise on Dynamical Astronomy** H. C. Plummer, 1918 **The Cornhill Magazine** George Smith, William Makepeace Thackeray, 1878 **Littell's Living Age** Eliakim Littell, Robert S. Littell, 1875 *The Living Age*, 1875 **Orbital Motion** A.E. Roy, 2020-07-14 Long established as one of the premier references in the fields of astronomy planetary science and physics the fourth edition of Orbital Motion continues to offer comprehensive coverage of the analytical methods of classical celestial mechanics while introducing the recent numerical experiments on the orbital evolution of gravitating masses and the astrodynamics of artificial satellites and interplanetary probes Following detailed reviews of earlier editions by distinguished lecturers in the USA and Europe the author has carefully revised and updated this edition Each chapter provides a thorough introduction to prepare you for more complex concepts reflecting a consistent perspective and cohesive

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