

Long Term Evolution Of Short Period Comets

Andrea Carusi

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Long-term Evolution of Short-period Comets Andrea Carusi, 1985 Long Term Evolution of Planetary Systems Rudolf Dvorak, Jacques Henrard, 2012-12-06 Proceedings of the Alexander von Humboldt Colloquium on Celestial Mechanics held in Ramsau Austria March 13 19 1988 Introduction to Comets John C. Brandt, Robert D. Chapman, 2004-03-11 We have now reached an exciting time in cometary research With several missions launched or about to be launched in the near future cometary research is rapidly being driven forward. This book describes the wealth of information known prior to the return of Halley's comet and the new information discovered since then It presents material on important background topics including observational techniques plasma physics celestial mechanics the solar wind and cosmogony The science of comets is described in order of its discovery from tail phenomena to coma morphology through to the most recent findings from space missions. The relationship between comets and asteroids is discussed and future space missions to investigate comets are described This comprehensive text is a complete and up to date treatment of the subject suitable for graduate and advanced undergraduate students of astronomy and planetary science Dynamics of Comets: Their Origin and Evolution A. Carusi, Giovanni B. Valsecchi, 2012-12-06 Proceedings of the 83rd Colloquium of the International Astronomical Union held in Dynamics and Evolution of Minor Bodies with Galactic and Geological Implications Rome Italy June 11 15 1984 S.V.M. Clube, Shin Yabushita, Jacques Henrard, 2012-12-06 Minor bodies in the Solar System though representing only a small fraction of the mass in the Solar System may well play a fundamental role in terrestrial evolution This book contains investigations of the dynamics and physics of comets asteroids and meteor streams and the rather controversial topic of periodic phenomena in the Solar System as signified by geological records together with several associated developments in celestial dynamics All these problems are interwoven This book makes a contribution towards unravelling the nature of the interactions between the Earth and its celestial environment Catalogue of Short-period Comets Nikolaĭ Alekseevich Beli∏a∏ev,1986 **Comets And Their Origin** Uwe Meierhenrich, 2015-01-30 Divided into two parts the first four chapters of Comets and their Origin refer to comets and their formation in general describing cometary missions comet remote observations astrochemistry artificial comets and the chirality phenomenon The second part covers the cometary ROSETTA mission its launch journey scientific objectives and instrumentations as well as the landing scenario on a cometary nucleus Along the way the author presents general questions concerning the origin of terrestrial water and the molecular beginnings of life on Earth as well as how the instruments used on a space mission like ROSETTA can help answer them The text concludes with a chapter on what scientists expect from the ROSETTA mission and how its data will influence our life on Earth As a result the author elucidates highly topical and fascinating knowledge to scientists and students of various scientific backgrounds allowing them to work with ROSETTA's data 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 Resonance and Collective Dynamical Phenomena in the Solar System Sylvio Ferraz-Mello, 1992-05-31 This symposium was devoted to a new celestial mechanics whose aim has become the study of such objects as the planetary system planetary rings the asteroidal belt meteor swarms satellite systems comet families the zodiacal cloud the preplanetary nebula etc When the three body problem is considered instead of individual orbits we are now looking for the topology of extended regions of its phase space This Symposium was one step in the effort to close the ties between two scientific families the observationally oriented scientists and the theoretically oriented scientists Comets in the Post-Halley Era R.L. Newburn, M. Neugebauer, Jürgen H. Rahe, 2012-12-06 Comets are always very impressive phenomena Their appearances at regular but mostly irregular times excite people who see them Astronomers have the obvious advantage of being able to see more of comets and to study them Their enthusiasm is reflected in the 50 papers in this book written by more than 90 experts The reviews in this book clearly describe a landmark in the history of cometary studies Knowledge gathered up to and including Comet Halley are presented in two volumes The first volume is about general aspects of observing and studying comets where they originate and how their evolution develops The second volume goes into the details of what a comet is the nucleus the coma cometary dust plasmas and magnetic fields The book ends with a reflection by Fred Whipple about Comets in the Post Halley Era The book discusses all aspects of comets and is therefore suitable for use in graduate level courses All astronomers and geophysicists interested in comets will find very useful and well presented information in this book

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