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Autore Woolfson M. M.

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Michael M. Woolfson

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15. Dwarf Planets, Asteroids, Comets and the Kuiper Belt16. Meteorites: Their Physical and Chemical Properties; 17. Isotopic Anomalies in Meteorites; 18. Overview and Conclusions; Appendix A: Angular Momentum; Appendix B: Equipotential Surfaces of a Tidally Distorted Star; Appendix C: The Instability of a Gaseous Filament; Appendix D: The Jeans Critical Mass; Appendix E: The Lynden-Bell and Pringle Mechanism; Appendix F: Grains in Molecular Clouds; Appendix G: The Structure of a Spiral Galaxy; Appendix H: The Centre of Mass and the

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Sommario/riassunto

The book begins with a historical review of four major theories for the origin of the Solar System in particular, or of planets in general, which highlight the major problems that need to be solved by any plausible theory. In many theories, including that which form the major theme of this book, the formation of planets and stars is intimately linked, so four chapters are devoted to the processes that can be described as the birth, life and death of stars. Recent observations that have revealed the existence of planets around many Sun-like stars are described in detail, followed by a clear exp