1. Record Nr. UNINA9910349501103321 Autore Cummings Warren D **Titolo** Evolving Theories on the Origin of the Moon / / by Warren D. Cummings Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2019 **ISBN** 3-030-29119-7 Edizione [1st ed. 2019.] Descrizione fisica 1 online resource (XIX, 311 p. 113 illus., 2 illus. in color.) Collana Historical & Cultural Astronomy, , 2509-310X 509 Disciplina Soggetti History Planetary science Technology—History History of Science Planetary Sciences **Planetology** History of Technology Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di contenuto Acknowledgements -- Foreword -- 1 Gaping at the Moon -- 2 Lunar Observations and Speculations—From Gilbert to the Apollo Explorations -- 3 Pre-Apollo Theories about the Origin of the Moon -- 4 Exploring the Moon—the Apollo Investigations -- 5 Post-Apollo Synthesis and Debate -- 6 Widening the Research Front -- 7 The Kona Conference— Day 1 -- 8 The Kona Conference—Day 2 -- 9 The Kona Conference— Day 3 -- 10 Assessments -- 11 Epilogue -- Glossary -- Index. Sommario/riassunto This book follows the development of research on the origin of the Moon from the late 18th century to the present. By gathering together the major texts, papers, and events of the time, it provides a thorough chronicle of the paradigmatic shift in planetary science that arose from the notion that the Earth-Moon system was formed from two colliding planetary bodies. The book covers pre-Apollo ideas, the conceptual evolution during and subsequent to the Apollo explorations of the Moon, and the development of the Earth-Moon system consensus. A

plethora of excerpts from key publications are included to demonstrate

the shift in scientific focus over the centuries. Through its comprehensive review of lunar science research and literature, this book shows how new technologies and discoveries catalyzed the community and revolutionized our understanding of the Moon's formation.