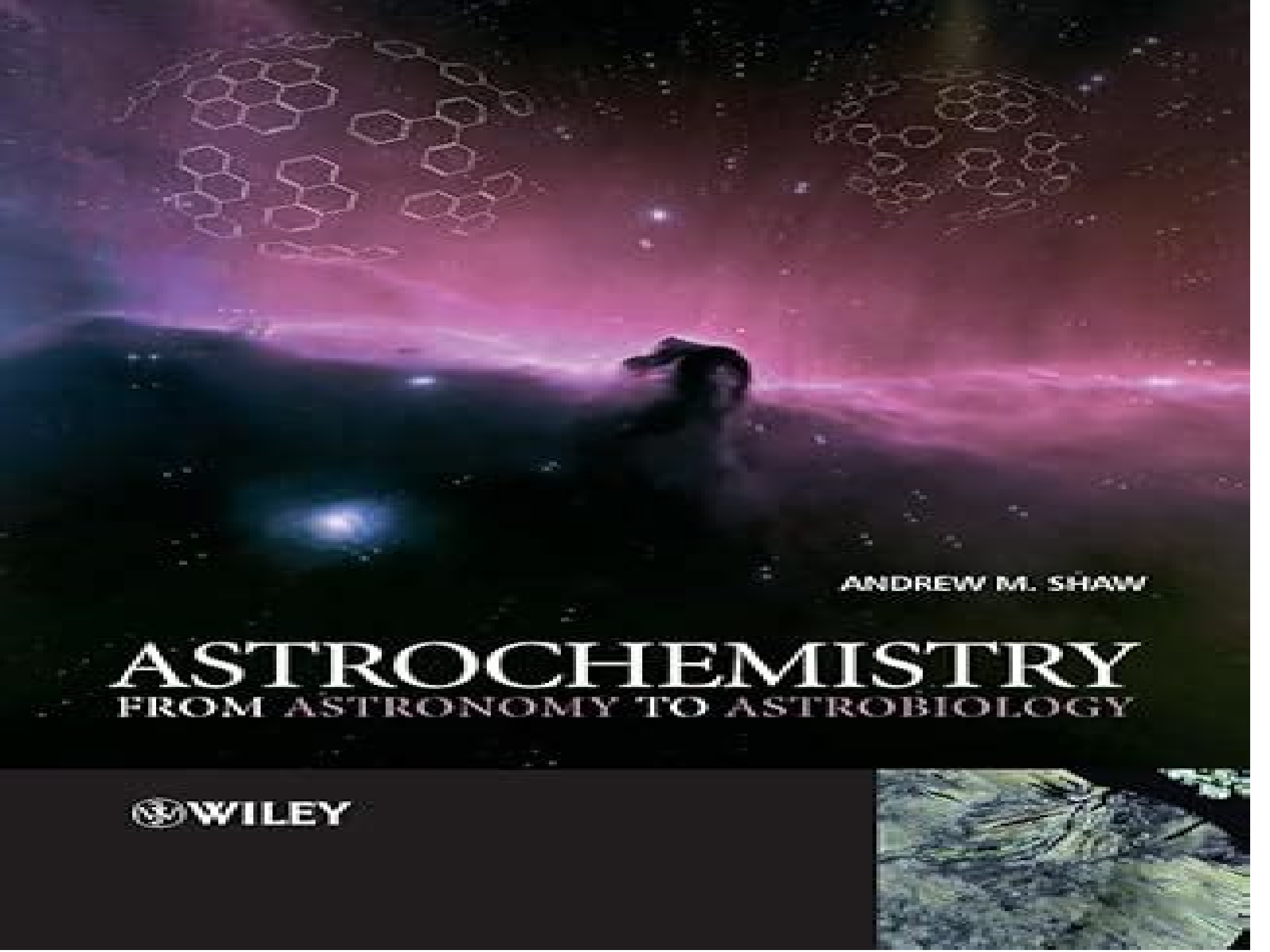


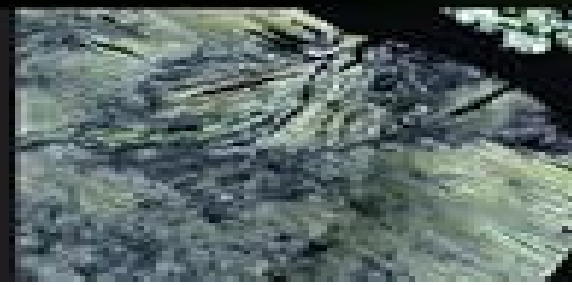


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Astrochemistry David A Williams, Cesare Cecchi-Pestellini, 2023-02-08 Ever wondered if the chemical processes taking place in space could be related to the origins of life The authors of this book both experienced

astrochemists embark on a discussion to find the answers to this question and more and include a general introduction to astrochemistry for chemistry students They explore chemistry occurring in the universe from its very early beginnings until the present era Based on our current understanding astrochemistry is known to occur in interstellar gas on dust grains and in interstellar ices in stellar atmospheres and envelopes in dense star and planet forming regions and on planets and other bodies in planetary systems Recent observational discoveries supported by remarkable laboratory work emphasize chemical complexity leading to answers to the tantalizing question can this complexity be related to the origin of life This book provides the tools to enable chemistry students to make their own computational investigations of astrochemistry and directs study across the chemical sciences and astronomy Concentrating on fundamental processes this book is a useful teaching aid

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Organic Matter in the Universe Sun Kwok, 2011-12-27 Authored by an experienced writer and a well known researcher of stellar evolution interstellar matter and spectroscopy this unique treatise on the formation and observation of organic compounds in space includes a spectroscopy refresher as well as links to geological findings and finishes with the outlook for future astronomical facilities and solar system exploration missions A whole section on laboratory simulations includes the Miller Urey experiment and the ultraviolet photolysis of ices

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aimed at intermediate to advanced undergraduates of chemistry and astrochemistry highlighting many different aspects of physical chemistry and demonstrating their relevance to the world we live in This book was written in conjunction with Atmospheric Chemistry From the Surface to the Stratosphere Grant Ritchie 2017 World Scientific Publishing

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