

Introducing astrochemistry to a wide audience, this book describes how molecules formed in chemical reactions occur in a range of environments in interstellar and circumstellar space, from shortly after the Big Bang up to the present epoch. Stressing that chemistry in these environments needs to be driven, it helps identify these drivers and the various chemical networks that operate giving rise to signature molecules that enable the physics of the region to be better understood. The book emphasises, in a non-mathematical way, the chemistry of the Milky Way Galaxy and its planet-forming regions, describes how other galaxies may have rather different chemistries and shows how chemistry was important even in the Early Universe when most of the elements had yet to be formed. This book will appeal to anyone with a general interest in chemistry, from students to professional scientists working in interdisciplinary areas and non-scientists fascinated by the evolving and exciting story of chemistry in the cosmos.

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Through the Cosmos from Galaxies to Planets () M. Cunningham, T. The Cosmic-Chemical Bond Chemistry from the Big Bang to Planet Formation (). Cosmic-Chemical Bond: Chemistry from the Big Bang to Planet Formation by T.W. Hartquist, D.A. Williams. Title Cosmic-Chemical Bond: Chemistry from the Big.

The cosmic-chemical bond: chemistry from the big bang to planet formation. Personal Author: Williams, D. A. (David Arnold), Publication Information.

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chemistry, of planetary chemis- In order to actually produce a systematic review of cosmic chemical evolu- tion, we may not .. Around million years after Big Bang, the first molecules started to form. .. creation of colloids exhibiting valence and directional bonding (Wang.

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