



Rate Coefficients in Astrochemistry Proceedings of a Conference held at Umis, Manchester, U.K. September 21-24, 1987 Astrophysics and Space Science Library

By -

Springer. Paperback. Book Condition: New. Paperback. 364 pages. Dimensions: 9.2in. x 6.1in. x 0.9in. An attempt has been made to collate the numbers of certain molecules in interstellar space, A search for the bands of CH, O, DR, en and C2 would appear to be promising. P Swings and L Rosenfeld Astrophysical Journal 86, 483(1937) This may have been the first attempt at modelling interstellar chemistry. As with models today, the methods used lacked reliability, but the speculation was impressive! Mark Twain might well have said of this infant subject One gets such wholesale returns of conjecture out of such a trifling investment of fact. The detection of unidentified lines around the period that Swings and Rosenfeld were writing provoked much interest, but even the most optimistic speculator could hardly have imagined developments which would occur during the next 50 years. By 1987 about 70 varieties of molecule had been identified in the interstellar and circumstellar regions, They range in complexity from simple diatomics such as H₂ and CO to such species as ethanol C₂H₅DH, acetone (CH₃)₂CO, and the largest interstellar molecule detected so far, cyano-penta acetylene HC₁₁N, The study of these molecules in astronomy has...



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