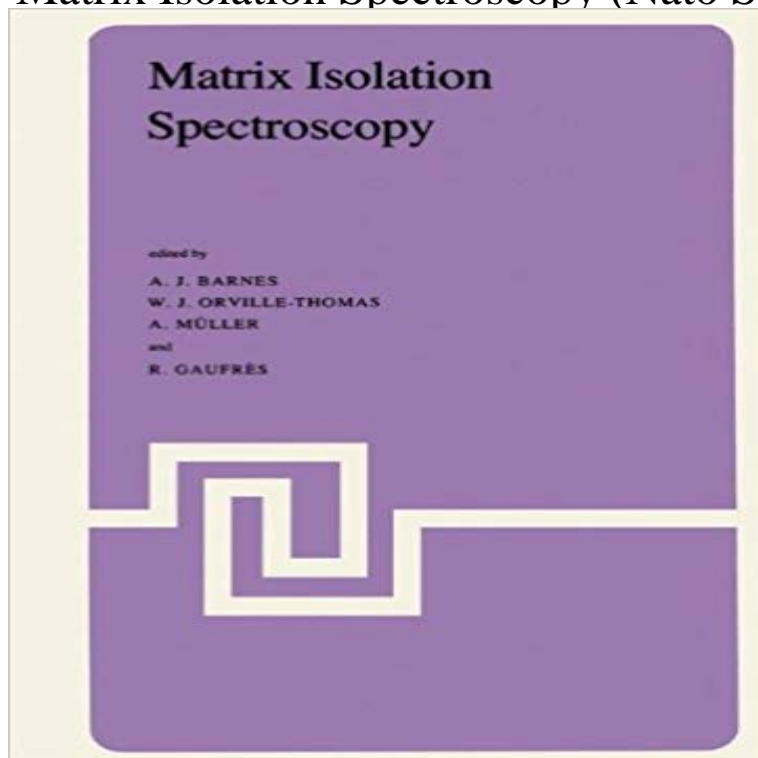


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The matrix isolation (MI) method has now been used for nearly thirty years. During this period it has been actively developed and the range of problems tackled greatly extended. Originally it was used for studies of transient species involving vibrational, electronic and ESR spectroscopy. Nowadays the study of transient species forms a comparatively small part of HI work since it has been amply demonstrated that very fruitful information can be obtained of the structure and interactions of stable molecules and their aggregates. In addition to the spectroscopic methods mentioned above the MI technique is nowadays a standard method in research based on vibrational relaxation, luminescence, Mossbauer, magnetic circular dichroism, pulsed NMR and photoelectron spectroscopy. The matrix isolation technique affords considerable advantages over more conventional methods in most applications of spectroscopy. Areas where the technique has been widely applied, or shows great potential, include: metal atom chemistry, and its relation to surface chemistry, high temperature inorganic species, transition metal complexes, interstellar species, free radicals and unstable molecules, conformational studies, molecular complexes, and intermolecular forces.

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