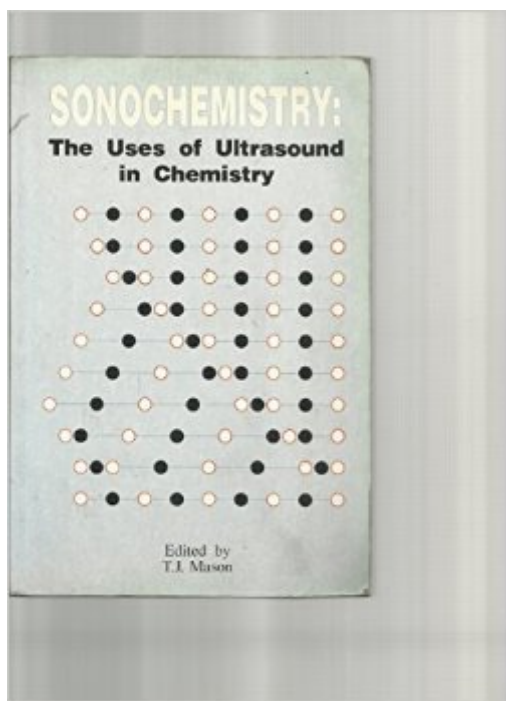


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Synopsis

The uses of ultrasound in chemical synthesis are covered with respect to reviews of organic and organometallic chemistry and catalysis, with practical aspects being included as a survey of the types of sonochemical equipment required. The book also discusses the use of diagnostic ultrasound for materials analysis and power ultrasound to initiate polymerization, give controlled degradation or to produce block and graft copolymers. Ultrasound has been used on a large scale in industrial technology and chemical processing. This is reviewed in terms of a range of applications including filtration, precipitation, atomization and electroplating. All of these have the potential to be modified as part of larger scale chemical procedures. The possibilities of, and problems associated with, the scale-up of laboratory sonochemical reactions from the last chapter.

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