

Studies of Polymeric Solids and Solutions; O.V. Abramov, The Action of Ultrasound on Solidifying Metals; N. Senapati, Ultrasound in Chemical Processing; T. Ando and T. Kimura, Ultrasonic Organic Synthesis Involving Non-Metal Solids; M.A. Margulis and N.A. Maximenko, The Influence of Ultrasound on Oscillating Reactions; and C.J. Schram, The Manipulation of Particles in an Acoustic Field. As in the inaugural volume the authors are all experts in their field and are drawn from a good range of countries.

Readers of this Journal are likely to regard relatively few of these Chapters of direct relevance to their work but they will find that all repay reading to gain an appreciation of the very wide range of situations in which ultrasound has been found to have beneficial effects. The Chapter concerned with organic synthesis involving use of non-metal solids (such as alkali metal salts, alumina, and metal salts supported on inorganic solids) will probably be of greatest interest as many of the reagents used are also of use in organometallic and inorganic syntheses. The discussion given about the apparent relevance of the melting point of solids to the effectiveness of ultrasonic irradiation should provide synthesis chemists (particularly those who have unsuccessfully applied ultrasound to their own reactions) with much food for thought. The two Chapters about the effects of ultrasound in polymer systems will also be applicable to those interested in organometallic or inorganic polymers. The contribution dealing with the physical basis for the formation of free radicals in solutions will also be useful to those seeking to understand why some reactions seem to be particularly susceptible to ultrasonic irradiation and others relatively unaffected.

This volume is again generally very well produced, although some of the photographs reproduced, for example those on pages 202 and 205, are of rather poor quality and show very little of the detail of interest. Finally, it is pleasing to see that despite there being an approximate 10% increase in length from Volume 1 the price has remained the same.

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Announcement

The Xth International Symposium on Organosilicon Chemistry will be held in Poznań, Poland on August 15–20, 1993. Details may be obtained from: Professor B. Marciniec, Faculty of Chemistry, Adam Mickiewicz University, Grunwaldzka 6, 60-780 Poznań, Poland.