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induced cavitation which will interest chemists and engineers alike.; Amongst the major topics included are chemical synthesis, environmental protection and remediation of water, sewage and soils, polymer synthesis and processing, electrochemistry including both analytical and synthetic aspects and plating. The final chapter reviews the range of ultrasonic equipment available in the laboratory and the progress made towards the scale--up of sonochemistry. The level is introductory to semi--advanced and no topic has been taken to a particularly specialist level since it is intended that this should be of general interest to readers with a scientific background.