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Preface

This volume contains papers presented at the XIth International Symposium on Nuclear Quadrupole Resonance Spectroscopy, which was held at King's College London from July 15–19, 1991. The pattern of the meeting was very much in the tradition of recent Symposia in attempting to span the very wide variety of physical and chemical problems in which the measurement of nuclear quadrupole interactions in all states of matter provides important information. Recent developments in the techniques of high-resolution nuclear magnetic spectroscopy in solids led to one whole day being devoted to their presentation. At the same time, the more traditional methods were not neglected; studies by pure nuclear quadrupole resonance and relaxation still provided the majority of papers presented at the Symposium. Investigations of nuclear quadrupole interactions in high- T_c superconductors were also covered, as were microwave measurements of nuclear quadrupole interactions in the gas phase, and muon methods in solids. Among new techniques, experiments providing for the first time nuclear quadrupole resonance images of solids were discussed, as were two-dimensional Fourier methods. The papers which follow have been presented under the following headings:

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The Local Committee would like to thank British Petroleum, the British Technology Group, Chemagnetics Inc., Imperial Chemical Industries, and Surrey Medical Imaging Systems (SMIS) for their sponsorship of the Symposium. Both Chemagnetics and SMIS provided impressive demonstrations during the Symposium, and the former hosted a reception in King's College Great Hall on the first day of the Symposium. Queen's University assisted in the publication of the Proceedings through a travel grant to R.J.C.B.

It is a pleasure to acknowledge the advice and assistance of the Local Committee, consisting of:

Professor D. Brinkmann (University of Zürich),

Dr. P. Jackson (ICI, plc),

Dr. M. H. Palmer (University of Edinburgh),

Professor J. A. S. Smith (Chairman),

Professors Al. Weiss and P. C. Schmidt (Darmstadt),

and over 120 participants and their guests who contributed much to the interest of the Symposium.

We are grateful to the editor of Zeitschrift for Naturforschung, Prof. A. Klemm, for his excellent cooperation and patience. The editing of the Proceedings was done by Peter C. Schmidt and Alarich Weiss.

R. J. C. Brown P. C. Schmidt J. A. S. Smith Al. Weiss