Dynamics in Small Confining Systems V

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Dynamics in Small Confining Systems V

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PREFACE

The sixth symposium on "Dynamics in Small Confining Systems", held November 27–30 at the 2000 MRS Fall Meeting in Boston, Massachusetts, celebrated a decade of this series. The program of the symposium covered a broad range of topics related to static and dynamic properties of confining systems: probing of confined systems, structure and dynamics of liquids at interfaces, nanorheology and tribology, adsorption, diffusion in pores, polymers and membranes, dielectric relaxation and biological aspects. Participants from various disciplines shared different points of view on the questions of how ultrasmall geometries can force a system to behave in ways significantly different from its behavior in the bulk, how this difference affects molecular properties, and how it is probed.

There appears to be a continuing interest in the dynamics and thermodynamics of confined molecular systems. This symposium was an effective way to bring together different disciplines interested in common problems.

The contributions in the proceedings reflect the broad range of topics discussed at the Meeting, all related to dynamics in small confining systems. We hope that the interdisciplinary nature of the proceedings and the Meeting will help to bridge the gap among the different approaches and methods presented. The papers appear in the book in the order of their presentation during the symposium.

We would like to thank everyone who helped in the organization and execution of the 2000 MRS Fall Meeting, especially the authors and presenters whose work has made this proceedings possible and the symposium successful.

Special thanks are due to ExxonMobil, ONR, and Tel Aviv University, which sponsored the symposium.

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