

# CONTENTS

Preface	Jiro Osugi.....	vi
<b>H. G. Drickamer</b> , <i>University of Illinois, U. S. A. :</i>		
High Pressure Luminescence .....		1
<b>Jiri Jonas</b> , <i>University of Illinois, U. S. A. :</i>		
Nuclear Magnetic Resonance Studies at High Pressures .....		19
<b>B. le Neindre</b> , <i>University Paris Nord, France :</i>		
Some Aspects of Transport Properties at High Pressures.....		36
<b>Masaru Nakahara and Jiro Osugi</b> , <i>Kyoto University, Japan :</i>		
The Water Structure and Proton Conductance at High Pressure.....		60
<b>R. G. Munro, G. J. Piermarini, and S. Block</b> , <i>National Bureau of Standards, U. S. A. :</i>		
Viscosities and Glass Transitions in Liquids at High Pressures .....		79
<b>Henry W. Offen</b> , <i>University of California, U. S. A. :</i>		
Micelles under Pressure.. ..		97
<b>E. Whalley</b> , <i>National Research Council of Canada, Canada :</i>		
Effect of Pressure on the Conformation of Molecules .....		119
<b>J. B. Clark and P. W. Richter</b> , <i>National Physical Research Laboratory, South Africa :</i>		
High Pressure Phase Diagrams of Inorganic Materials and Metal Alloy Systems .....		132
<b>Seston D. Hamann</b> , <i>CSIRO, Australia :</i>		
The Role of Electrostriction in High Pressure Chemistry .....		147
<b>B. S. El'yanov and E. M. Vasil'vitskaya</b> , <i>N. D. Zelinsky Institute of Organic Chemistry, U. S. S. R. :</i>		
Some Recent Approaches to the Quantitative Description of the Effect of High Pressure on the Thermodynamic and Kinetic Parameters of Chemical Reactions.....		169
<b>Rudi van Eldik and Hartwig Kelm</b> , <i>University of Frankfurt, West Germany :</i>		
Interpretation of the Volume of Activation of Inorganic Reactions in Solution.....		185
<b>W. J. le Noble</b> , <i>State University of New York, U. S. A. :</i>		
The Volume Profile of Chemical Reactions .....		207
<b>V. M. Zhulin</b> , <i>N. D. Zelinsky Institute of Organic Chemistry, U. S. S. R. :</i>		
Free Radical Reactions at High Pressures.....		217
<b>T. W. Swaddle</b> , <i>The University of Calgary, Canada :</i>		
Operationism, Mechanism, and High Pressure.....		230

<b>E. N. Yakovlev, B. W. Vinogradov, G. N. Stepanov, and Yu Timofeev, <i>Institute of High Pressure Physics, U. S. S. R. :</i></b>	
Dielectric-to-Metal Transitions and Superconductivity of New Metals .....	243
<b>K. Heremans, <i>Katholieke Universiteit Leuven, Belgium :</i></b>	
Biophysical Chemistry at High Pressures.....	259
<b>Appendix</b>	
I, List of Papers. Vols. 1 to 50.....	A 1
II, Author Index.....	A 22
III, Subject Index.....	A 25