

PREFACE

CONTENTS

Preface.	vii
1. The Nature of Organometallic Polymerization—A Review.	1
<i>Maurice Morton</i> , Institute of Rubber Research, The University of Akron, Akron, Ohio	
2. Preformed Alkylaluminum-Titanium Tetrachloride Catalysts for the Polymerization of Isoprene. Effect of Groups attached to the Aluminum on Catalytic Performance.	6
<i>E. Schoenberg, D. L. Chalfant, and T. L. Hanlon</i> , The Goodyear Tire and Rubber Co., Research Division, Akron, Ohio	
3. Polymerization of 1,3-Pentadiene to <i>cis</i> -1,4 Stereoisomers.	24
<i>G. Natta and L. Porri</i> , Institute of Industrial Chemistry, Politechnic of Milan, Milan, Italy	
4. Polymerization Mechanism of Nonpolar Monomers by Lithium Alkyls.	36
<i>S. Bywater and D. J. Worsfold</i> , Division of Applied Chemistry, National Research Council, Ottawa, Ontario, Canada	
5. Electron Donors in Diene Polymerization.	46
<i>W. Cooper, D. E. Eaves, and G. Vaughan</i> , Dunlop Research Centre, Birmingham, England and <i>G. Degler and R. Hank</i> , Dunlop Research Centre, Hanau, Germany	
6. Polymerization of Higher Aldehydes.	67
<i>O. Vogl</i> , Central Research Department, E. I. duPont de Nemours and Co., Inc., Wilmington, Del.	
7. Symmetry and Repetition Theory in Classifying Stereoregular Polymers.	80
<i>Sundar L. Aggarwal</i> , Research and Development Center, The General Tire and Rubber Co., Akron, Ohio	
8. Characterizing Stereosequence Length of Propylene Oxide Polymers from Different Catalysts.	88
<i>Sundar L. Aggarwal, Leon Marker, W. L. Kollar, and R. Geroch</i> , Research and Development Center, The General Tire and Rubber Co., Akron, Ohio	
9. An Initial Survey of the Polymerization Kinetics of 4-Methylpentene-1.	105
<i>R. J. Ehrig, J. J. Godfrey, and G. S. Krishnamurthy</i> , W. R. Grace & Co., Washington Research Center, Clarksville, Md.	
10. Transition Metal Catalyst Systems for Polymerizing Propylene.	115
<i>G. J. Van Amerongen</i> , Koninklijke/Shell-Laboratorium, Amsterdam, The Netherlands	
11. Transition Metal Catalyst Systems for Polymerizing Butadiene and Isoprene.	136
<i>G. J. Van Amerongen</i> , Koninklijke/Shell-Laboratorium, Amsterdam, The Netherlands	
Index.	153