

CONTENTS

Preface	iii
Contributors	vii
GEL PERMEATION CHROMATOGRAPHY: A TWENTY YEAR VIEW John C. Moore	1
MACROMOLECULAR COMPRESSION AND VISCOSUS FINGERING AS DEMONSTRATED IN FRONTAL GPC John C. Moore	13
THE USE OF GEL PERMEATION CHROMATOGRAPHY TO DETERMINE THE STRUCTURE AND POLYMERIZATION MECHANISM OF BRANCHED BLOCK COPOLYMERS Michael R. Ambler	29
POLYSTYRENE BONDED SILICA AS GPC PACKING: A VARIABLE PORE DIAMETER PACKING CONCEPT IN GPC Benjamin Monrabal	79
POLYPHOSPHAZENE POLYMERIZATION STUDIES USING HIGH PERFORMANCE GPC G. L. Hagnauer and T. N. Koulouris	99
HIGH PRECISION DETERMINATION OF MOLECULAR WEIGHT CHANGES IN POLYCARBONATE BY USE OF AN INTERNAL STANDARD IN ROOM TEMPERATURE GPC MEASUREMENTS M. Y. Hellman and G. E. Johnson	115
A COILED MICROCOLUMN FOR FAST GEL PERMEATION CHROMATOGRAPHY C. D. Chow and M. W. Long, Jr.	127

CHARACTERIZATION OF OLIGOMERS BY GPC W. Heitz	137
LIQUID CHROMATOGRAPHIC CHARACTERIZATION OF PRINTED CIRCUIT BOARD MATERIALS Deborah K. Hadad	157
APPLICATION OF HPGPC AND HPLC TO CHARACTERIZE OLIGOMERS AND SMALL MOLECULES USED IN COATING SYSTEMS C. Kuo, T. Provder, R. M. Holsworth, and A. F. Kah	169
ON LINE DETERMINATION BY LIGHT SCATTERING OF MECHANICAL DEGRADATION IN THE GPC PROCESS J. G. Rooney and G. Ver Strate	207
GEL PERMEATION CHROMATOGRAPHIC ANALYSIS OF POLY(2-METHYLPENTENE-1 SULFONE) AND POLY(BUTENE-1 SULFONE): THE INFLUENCE OF POLYMER-COLUMN AND POLYMER-SOLVENT INTERACTIONS ON ELUTION BEHAVIOR Gary N. Taylor, Molly Y. Hellman, and Larry E. Stillwagon	237
THE APPLICATION OF GEL-PERMEATION CHROMATOGRAPHY TO POLYOLEFIN PRODUCT PROBLEMS Lowell Westerman	257
DETERMINATION OF POLYETHYLENE MELT INDEX FROM GPC DATA William A. Dark	281
AUTHOR INDEX	291
SUBJECT INDEX	297