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Nota di contenuto	Intro -- NEW DEVELOPMENTS IN POLYMERS RESEARCH -- NEW DEVELOPMENTS IN POLYMERS RESEARCH -- CONTENTS -- PREFACE -- RAMAN STUDY OF THE PRESSURE AND TEMPERATURE INDUCED TRANSFORMATIONS IN CRYSTALLINE POLYMERS OF C60 -- ABSTRACT -- 1. INTRODUCTION -- 2. RESEARCH METHOD AND EXPERIMENTAL TECHNIQUE -- 3. RAMAN SPECTRA OF THE 2D-T POLYMER AND PRESSURE INDUCED PHASE TRANSITIONS -- 4. RAMAN SPECTRA OF THE 2D-R POLYMER AND PRESSURE INDUCED PHASE TRANSITIONS -- 5. PHOTO- AND PRESSURE-INDUCED TRANSFORMATIONS IN THE LINEAR ORTHORHOMBIC POLYMER OF C60 -- 5.1. Photo-Induced Transformation -- 5.2. Pressure-Induced Transformations -- 6. PHOTOLUMINESCENCE OF THE C60 POLYMERS AT HIGH PRESSURE -- 7. THERMAL STABILITY AND DECOMPOSITION KINETICS OF THE 2D-R POLYMER OF C60 -- CONCLUSION -- ACKNOWLEDGMENTS -- REFERENCES -- BIO-BASED (CO)POLYESTERS CONTAINING 1,4-CYCLOHEXYLENE UNITS: CORRELATIONS BETWEEN STEREOCHEMISTRY AND PHASE BEHAVIOR -- ABSTRACT -- 1. INTRODUCTION -- 2. EXPERIMENTAL PART -- 2.1. Materials -- 2.2. Sample Preparation -- 2.2.1. Synthesis of Poly(Butylene 1,4-Cyclohexanedicarboxylate) (PBCHD) -- 2.2.2. Synthesis of (4-6)-Co-PBCHD90-50/50 Copolyester -- 2.3. Characterization -- 3. RESULTS AND DISCUSSION -- 3.1. Preparation and characterization of homopolymers -- 3.1.1 Synthesis -- 3.1.2. Effect of the Molecular Structure on Thermal Properties --

3.1.3. Analysis of the Phase Behaviour for PBCHD and PCCD Homopolymers -- 3.1.4. Relationship between Molecular Structure and Phase Behavior -- 3.1.4.1. PBCHD -- 3.1.4.2. PCCD -- 3.2. Preparation and Characterization of Copolymers -- 3.2.1. Molecular Characterization -- 3.2.2. Analysis of the Phase Behaviour of Copolymers -- CONCLUSION -- REFERENCES -- THERMO- AND PH-SENSITIVITY OF POLY (N-VINYLPYRROLIDONE) IN WATER MEDIA -- ABSTRACT -- INTRODUCTION -- THERMOSENSITIVITY OF PVP SOLUTIONS, CONTAINING SALTS. PHASE SEPARATION OF PVP SOLUTIONS IN THE PRESENCE OF ORGANIC COMPOUNDS CAPABLE TO FORM COMPLEXES WITH THE POLYMER -- PHASE SEPARATION IN WATER SOLUTIONS OF PVP COPOLYMERS AND DERIVATIVES -- STIMULI-RESPONSIVE HYDROGELS ON THE BASE OF PVP COPOLYMERS -- REFERENCES -- INDEX.

Sommario/riassunto

This new book presents and discusses current research in the study of polymer research. Topics discussed include a raman study of the pressure and temperature induced transformations in crystalline polymers of C60; eco-friendly (co)polyesters containing 1,4-cyclohexylene units and thermo-and pH-sensitivity of poly(N-vinylpyrrolidone) in water media.
