



## Conjugated Polymers

By Brédas, J. L. / Silbey, R.

Book Condition: New. Publisher/Verlag: Springer Netherlands | The Novel Science and Technology of Highly Conducting and Nonlinear Optically Active Materials | CONJUGATED POLYMERS: THE IMTERPLAY BETWEEN SYNTHESIS, 1 STRUCTURE, AND PROPERTIES C. B. GORMAN and R. H. GRUBBS 1. Introduction 2 2. Structural Features of Conjugated Polymers 3 3. Polymer Synthesis: Basic Methods 4 3. 1 Step-Growth Polymerization 5 3. 2 Chain-Growth Polymerization 6 3. 3 Ring-Opening Polymerization 8 4. Direct Synthetic Methods 8 4. 1 Electrochemical Synthesis 9 4. 2 Synthesis by Step-Growth Polymerization 11 4. 2. 1 Polyaniline (PAN) 11 4. 2. 2 Poly(Phenylene Sulfide) 12 4. 2. 3 Poly thiophene and its Derivatives 13 4. 2. 4 Other 5-membered Heterocyclic 16 Derivatives 4. 2. 5 Polyparaphenylenes (PPP) 17 4. 2. 6 Polysilanes 18 4. 2. 7 Polymers of Phthalocyanines 19 4. 2. 8 Other Conjugated Metal Coordination 20 Polymers 4. 2. 9 Ladder Polymers 21 4. 3 The Unusual Topochemical Polymerization to 23 form Polydiacetylenes 4. 4 Chain-Growth Polymerizations 24 4. 4. 1 Polyacetylene via Ziegler-Natta 24 Polymerization 4. 4. 2 Ring-Opening Metathesis Polymerization 26 Routes to Polyacetylenes 5. Polymers from precursors 27 5. 1 Polyparaphenylenes (PPP) 27 5. 2 Poly(Phenylene Vinylene) (PPV) and Other 28 Vinylene...

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