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Autore	Krol Piotr
Titolo	Linear polyurethanes : synthesis methods, chemical structures, properties and applications / / by Piotr Krol
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Nota di bibliografia	Includes bibliographical references (p [241]-250) and index.
Nota di contenuto	Basic raw materials for the production of linear polyurethanes Reaction mechanisms occurring in the polyurethane production process General kinetic model for the diisocyanates and polyols polyaddition process Principal reactions utilised in the polyurethane technology Manufacturing methods for polyurethane elastomers Non- isocyanate methods for the synthesis of N-substituted linear polyurethanes Determination of molecular weights of linear polyurethanes by gelpermeation chromatography (GPC) and mass spectrometry (MS) methods Polyurethane ionomers Examples of copolymers with linear polyurethanes Microphase separation in polyurethane elastomers. Glass transition temperaturesanalysis of phase structures by DSC, SAXS and AFM methods Intermolecular interactions free surface energy Thermal properties of linear polyurethanes Modern trends in property programming and in applications for linear polyurethanes.
Sommario/riassunto	This volume describes in detail the mechanisms of the diisocyanates and polyols polyaddition process as well as its kinetic and process aspects important for obtaining linear polyurethanes. General kinetics

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of the process and its experimental verification, using GPC chromatography as well as NMR spectroscopy and MALDI-ToF spectrometry, are presented. Accompanied by over 400 references, the author presents synthesis methods, physicochemical properties of linear polyurethanes (analyzed with DCS, TG, DMTA, Rtg, AFM microscopy methods) as semiproducts for foams, elastomers, lacquers and coatings.