



Scientific aspects of modification processes for epoxy resins

By Felix Sharikov

LAP Lambert Academic Publishing Aug 2016, 2016. Taschenbuch. Book Condition: Neu. 220x150x6 mm. This item is printed on demand - Print on Demand Neuware - A wide range of polymeric materials on the base of epoxy resins and fast appearance of new products - both force to consider the problem of creating a flexible multi-product technology for their production and to find an optimal procedure of searching a synthetic regime for any new composition. The monograph is devoted to the problem of increasing the range of polymeric compositions that have a broad application in industry: constituents for coatings, numerous repair compositions, and so on. Possibilities to improve the physico-chemical characteristics (solidity, adhesion strength, chemical stability) have been considered. Modification of epoxy oligomers with the use of bi-functional alcohols or cyclocarbonylation of terminal epoxy groups makes it possible to generate a new complex of properties for an initial polymer. A detailed kinetic study with applying calorimetric technique followed by mathematical modeling of modification processes is presented. Selection, modeling and safety assessment of the reactor unit functioning are discussed. The monograph may be useful for chemical engineers and research workers in the field. 96 pp. Englisch.



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