



Continuous Emulsion Copolymerization of Vinyl Acetate and VeoVa 10 using Taylor Reactor

By Muhammad Babar

Wissenschaft & Technik Ve Mai 2013, 2013. Taschenbuch. Condition: Neu. Neuware - Emulsion Polymerization leads to the production of fine dispersion of polymer particles in a continuous medium, which most often is water. Emulsion polymerization is used in the production of a wide range of products including adhesives, sealants, coatings, binders for nonwoven fabrics, additives for paper, textile and construction materials. The favorable solvent-free products are the driving force for the rapid advancement of this green technology. Emulsion polymerization is a complex process which takes place over a number of steps. Each step is influenced by physical and chemical parameters; therefore, emulsion polymers are referred as 'Products by Process'. Within the scope of the present work, a new continuous process for fast emulsion copolymerization of vinyl acetate and VeoVa 10TM is realized. Important task was process intensification with a suitable reactor concept to optimize space time yield and improve process flexibility. A particular emphasis was placed on Taylor reactor (or Taylor-Couette or Taylor Vortex Flow Reactor). Taylor reactor is essentially composed of two cylinders arranged concentrically forming an annular gap which serves as a reaction space. The rotation of the inner cylinder gives rise to toroidal vortices (referred as Taylor...



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