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Nuclear Magnetic Resonance as a Tool for On-Line Catalytic Reaction Monitoring

By Lisandro Buljubasich Gentiletti

Shaker Verlag Mai 2010, 2010. Taschenbuch. Condition: Neu. Neuware - Nuclear Magnetic Resonance (NMR) has become a well-established method in many different areas of research. The scope of the disciplines involved is extremely broad, but the power of NMR, lies in its ability to combine and extend the available techniques for a more thorough solution of problems which cannot be assigned to one of the popular categories. In the world of chemical engineering, every chemical process is designed to produce economically a desired product from a variety of starting materials through a succession of treatment steps. Frequently, the chemical treatment step (typically a reaction taking place inside a reactor) is the hearth of the process, that makes or breaks the process economically. Heterogeneous Catalytic reactions play an important role in many industrial processes. It is estimated that well over 50 % of all the chemicals produced today are made with the use of catalysts. The rate constants of the heterogeneous catalytic reactions, and therefore the efficiency of the reaction, depends on several parameters. Therefore, the development and optimization of the catalyst becomes an important part of the design of a chemical process, and much effort and money are invested in that..



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