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Computer analysis of the heterogeneous surfaces using the unique fast multivariant numerical procedure with the new clustering based models

Mirosław Kwiatkowski

AGH University of Science and Technology, Poland

The optimal selection of the methods and conditions for the production of adsorbents and catalysts requires the reliable and accurate description of the parameters of the heterogeneous surfaces and physicochemical processes occurring on them. Many theories of the adsorption processes were developed in the past century, which assume different mechanisms of physicochemical processes and various simplifications. This work presents the results of the application of new mathematical models with the unique numerical fast multivariate numerical identification procedure as the universal tool for analyzing the heterogeneous surfaces. The proposed method yield a broader range of reliable information on the surface structure of the analyzed material, which is particularly useful for the assessment of the impact of production process conditions and modifications on the development of both geometrical and energetic properties of the surface of heterogeneous catalysts.

Biography

Dr. hab. eng. Mirosław Kwiatkowski in 2004 obtained PhD degree from the Faculty of Energy and Fuels at the AGH University of Science and Technology in Kraków (Poland), and in 2018 D.Sc. degree from the Faculty of Chemistry at the Wrocław University of Technology (Poland) in the discipline: chemical technology. In addition, he obtained a certificate of completion of postgraduate studies: Professional Research and Development Project Manager at the Krakow University of Agriculture (Poland), Research and Development Project Manager at the Krakow University of Agriculture (Poland), Research and Development Project Manager at the University of Economics and Innovation in Lublin (Poland), and Electrical Energy Markets from the Faculty of Electrical Engineering, Automatics, Computer Science and Biomedical Engineering at the AGH University of Science and Technology in Krakow (Poland). His published work includes more than 45 papers in reputable international journals and 80 conference proceedings. He is the editor in chief of The International Journal of System Modeling and Simulation (United Arab Emirates), an associate editor of Micro & Nano Letters Journal (United Kingdom) and a member of the many editorial board of international journals as well as a member of the organizing and scientific committees international conferences in Europe, Asia and United States of America.

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