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## **Simulation the continuous catalytic reforming (octanizer) unit of Arak Refinery gasoline production complex with PETROSIM software**

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Naphtha catalytic reforming is one of the most important and key processes in any refineries. In this process, mainly gasoline is produced with high octane number and in petrochemical complexes expensive Aromatics such as benzene, toluene and xylene are also produced. Considering increasing need and the importance of quality and quantity of desirable gasoline, it is necessary to simulate the process of naphtha catalytic reforming to achieve the best values of operational variables, enforcing the best solution in dealing with fluctuations and changes in processing conditions, identification and removing bottlenecks, reducing production costs by the simulation of above mentioned process. In this research, firstly the processes leading to the production of high octane gasoline in the naphtha catalytic reforming are explained with continuous catalyst regeneration unit of Esfahan oil refinery then has been stimulated by PETROSIM software.

### **Biography**

Ali Shaeri is a PhD student and working in NIOEC as a Senior Process Engineer. He is a Member of a Scientific Mission and also teaches at Elmi-Karbordi University. He is also a Member of IPS. He was responsible for commissioning and pre-commissioning of process units in Arak Refinery Expansion Project.

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