

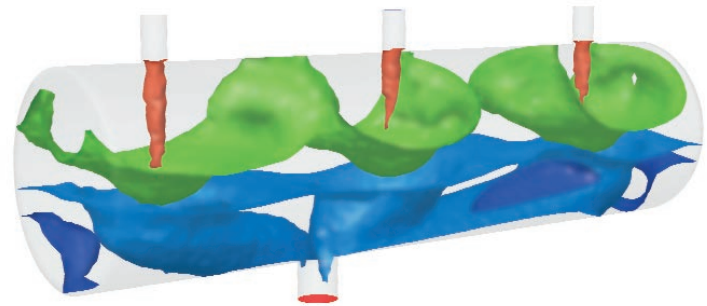
King Fahd University of Petroleum & Minerals Adopts Fluent Software

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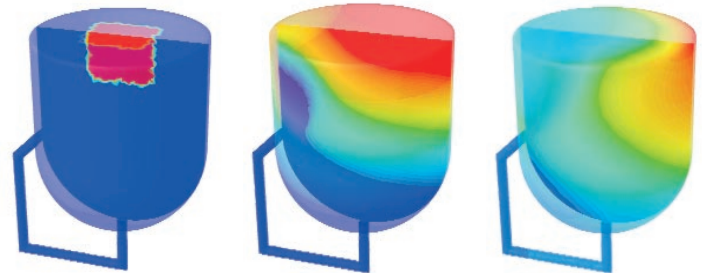
The Middle East is an emerging region in terms of its CFD usage. Many industries that are native to the region have, in other parts of the world, invested heavily in CFD analysis. Accordingly, Fluid Codes, launched in 1996, has successfully promoted CFD within the academic sector. Today, leading academic institutions are making use of the technology in their classrooms and research labs, so that their students, once out in the working world, can continue to advance the technology of the region's businesses.

For over forty years, King Fahd University of Petroleum & Minerals (KFUPM) in Saudi Arabia has served as the center of academic engineering activities in the area, providing the entire Gulf region with qualified engineering manpower for many of the engineering sectors, including petrochemical, water treatment, and HVAC. Several departments at the university are now using Fluent software products exclusively. In the chemical and mechanical engineering departments, for example, FLUENT, MixSim, and POLYFLOW are being used for a variety of activities. Applications under the direction of Associate Professor Habib Zughbi in the chemical engineering department include jet mixing, pipeline mixing, reacting flow, and gas-solid multiphase flow.

It is hoped that through cooperation between Fluent Europe Ltd., Fluid Codes Ltd., and the University, the use of CFD will continue to grow throughout the Middle East region, particularly at some of the world's leading petrochemical companies in countries such as Saudi Arabia, Qatar, and the United Arab Emirates. ■



Simulation of flow and chemical reactions in a Claus Converter using the finite rate model; surfaces of SO₂ mass fraction are shown



Temperature contours on the surface and mid-plane at three times, showing the progress of mixing in a liquid jet agitated tank