



Powertrain-3: CFD Simulation of Coolant, Lube and Transmission Systems

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This webinar session will focus on ANSYS CFD capabilities in the field of automotive powertrain, particularly Lube system, Coolant system and Transmissions system. The entire lube system, from lube pump to lube channels, oil sump, oil filters, PCVs and valves will be considered. Similarly, the entire coolant system, from coolant pump to radiator, water jackets in the head and block will be considered. On transmissions, components like clutches, gear systems, torque converters and differentials will be considered. Flow and thermal aspects of each of these components will be touched upon. Models, tools, processes and best-practices for simulating these components and systems will be discussed along with real-life examples. Advantages of ANSYS simulation environment like parameterization, optimization and data-transfer will be highlighted.

About the presenter



Jayesh Mutyal is Senior Technology Specialist in the Support & Services organization at ANSYS FLUENT India Pvt Ltd. Jayesh has been with FLUENT and ANSYS for about 9 years. He did M.Tech in Mechanical Engineering (Thermal and Fluids Engineering) from IIT Bombay. Jayesh has worked extensively in the field of CFD in Automotive Industry. He has worked closely with many US Auto majors based in North-America. His focus areas have been After-treatment, In-Cylinder Modeling , Powertrain, Discrete phase modeling, Wall-film modeling & Positive displacement pumps. Jayesh has delivered presentations on automotive CFD at several platforms during national and International ANSYS conferences."