



Powertrain-1: CFD Simulation of Air-handling and Fuel Systems

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This webinar session will focus on ANSYS CFD capabilities in the field of automotive powertrain, particularly air-handling systems and fuel systems. The entire air-handling system, from air induction, through intake manifold and ports and from exhaust ports through exhaust manifold and turbocharger would be considered here. Similarly, the entire fuel systems, from fuel tanks, to filler pipes, fuel pumps and fuel injectors 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



Sourabh is Technology Specialist, at ANSYS India. From past 6 years he has been working with several global and Indian customers on CFD simulation techniques related to automotive applications like port flows, intake-exhaust systems, 1D-3D coupling and In-cylinder modeling. His areas of expertise include reacting flows and In-cylinder combustion modeling. Sourabh has about 4 publications in international and national conferences. Sourabh is an M.Tech from IIT Kharagpur in Thermal Science and Engineering.