

Solving problems involving fluid flows

When analysing compressor cleaning droplet trajectories or optimising a turbine blade, a field test or experiment might be needed to prove the correctness of the concept used to solve the given problem. Sadly, testing of most of the aerodynamic or fluidal processes can be very complex, time consuming and very costly. Sometimes a realistic setup needed for a test is very difficult or almost impossible to arrange. Here Computational Fluid Dynamics (short: CFD) can provide a solution.

What are Computational Fluid Dynamics?

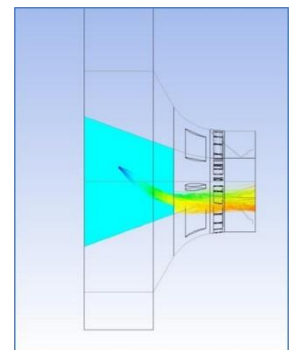
Computational Fluid Dynamics uses numerical analysis and data structures to analyse and solve problems that involve fluid flows. Translated into real world application this means that a mathematical model of the physical subject and a numerical method are used in a software tool to analyse the fluid flow. Realistic calculations are achieved through consideration of all properties of the fluid and boundary conditions based on the real physical surroundings of the subject.

ABOUT TURBOTECT LTD.

The company helps its customers to improve the efficiency and profitability of their gas turbines in the fields of gas turbine fuel treatment, compressor cleaning and balance of plant equipment. Turbotect Ltd. provides service and professional support through a worldwide network of subsidiaries and representatives. Its products and services are well recognized and endorsed by gas turbine operators and Original Equipment Manufacturers worldwide.

Our capabilities

Turbotect Ltd. has an expert team ready to professionally take care of your specific problem or task. Turbotect Ltd. has accumulated a vast experience in analysing complex fluid flows and offers customized engineering solutions to handle them. Do you want to calculate the compressor cleaning droplet trajectories and their distribution in the compressor inlet? Our team will be happy to assist.



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