

# Combustion simulation with CFD

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Traditional engine experiments provide limited information about the process inside the cylinder. Optical diagnostic methods can provide improved insights but they are still limited. Computational fluid dynamics (CFD) simulations with chemistry models can provide even more insight and can even simulate some cases that would be very difficult or even impossible to study experimentally.

Simplified, validated CFD simulation models can also be used as a design tool by letting an optimizer select e.g. the optimal combustion chamber geometry in terms of emissions and efficiency.

