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## Tutorial 12. Cold Flow Simulation Inside an SI Engine

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### Introduction

The purpose of this tutorial is to illustrate the case setup and solution of the two dimensional, four stroke spark ignition (SI) engine with port injection.

SI engines are of extreme importance to the auto industry. The efficiency of an SI engine depends on several complicated processes including induction, mixture preparation, combustion, and exhaust flow. CFD analysis has been used extensively to improve each of these processes. This tutorial simulates the intake, compression, expansion, and exhaust processes without fuel combustion. Port injection is modeled and evaporation of fuel droplets is simulated. The interaction of the fuel spray with the intake valve is modeled through the wall film modeling features available in **FLUENT**.

This tutorial demonstrates how to do the following:

- Use of the In-Cylinder model for simulating reciprocating engines.
- Use general strategies for modeling valve opening and closing.
- Use of the Discrete Phase Model (DPM) for simulating port injection.
- Carry out solver setup and perform iterations.
- Examine the results.
- Display and create animation for droplet injection.

### Prerequisites

This tutorial assumes that you have little experience with **FLUENT** but are familiar with the interface.

### Problem Description

The IC engine simulation is probably one of the most interesting engineering problems in the field of computational fluid dynamics. Port injection is used for efficient air/fuel mixing and fuel distribution in multi-cylinder engines.

In this tutorial, you will consider a two dimensional engine with inlet and exit valves. The engine is running at 2000 rpm. The intake, compression, expansion and exhaust processes

# Fluent Tutorial Examples On Ic Engine Combustion

**David R Rogers**



## Fluent Tutorial Examples On Ic Engine Combustion:

**Advanced Manufacturing and Automation** Ke Sheng Wang, Jan Ola Strandhagen, Da Wei Tu, 2014-10-31 Selected peer reviewed papers from the 4th International Workshop of Advanced Manufacturing and Automation IWAMA 2014 October 27 28 2014 Shanghai China *I.C. Engines And Combustion* , **The Internal Combustion Engine in Theory and Practice** C. F. Taylor, 1977 **Internal Combustion Engine Design** John Manning, 2013-08 **Internal Combustion Engine Fundamentals** John B. Heywood, 1989 **Internal Combustion Engine Fundamentals** Heywood, John B., 2010-01-07 *Engine Combustion* David R Rogers, 2021-06-02 *Engine Combustion Pressure Measurement and Analysis 2E* provides practical information on measuring analyzing and qualifying combustion data as well as details on hardware and software requirements and system components Describing the principles of a successful combustion measurement process the book will enable technicians and engineers to efficiently generate the required data to complete their development tasks The revised edition has been updated with color photos and a fresh modern format has been adapted enhancing the readability of the book As with the original printing *Engine Combustion Pressure Measurement and Analysis 2E* is a comprehensive handbook for technicians and engineers involved in engine testing and development and a valuable reference for scientists and students who wish to understand combustion measurement processes and techniques **The Internal-combustion Engine in Theory and Practice** Charles Fayette Taylor, 1971 *Fundamentals of Internal Combustion Engines* H. N. Gupta, 2013 **Internal Combustion Engine Fundamentals** John B. Heywood (author), 2018 Engineering Fundamentals of the Internal Combustion Engine Willard W. Pulkrabek, 1997 Principles of Electric Spark Ignition in Internal Combustion Engines John David Morgan, 1922 *The Elements of Internal-combustion Engineering* Paul Telford Petrie, 1925 The internal-combustion engine. 1. Slow-speed engines Harry R. Ricardo, 1922 *The Internal-combustion Engine ...* Sir Harry Ralph Ricardo, 1923 **Internal Combustion Engine Manual** Frank Ward Sterling, 1911 Factors Affecting Heat Transfer in the Internal-combustion Engine Pei Moo Ku, 1940 Internal combustion engines **The Internal-combustion Engine** Harry Ralph Ricardo, (Harold Stanley) Glyde, 1950 *Internal Combustion Engine Manual* F. W. Sterling, 2019 **The internal-combustion engine. 2. High-speed engines** Harry R. Ricardo, 1923

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