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## Chapter 20: Using the VOF Model

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This tutorial is divided into the following sections:

- 20.1. Introduction
- 20.2. Prerequisites
- 20.3. Problem Description
- 20.4. Setup and Solution
- 20.5. Summary
- 20.6. Further Improvements

### 20.1. Introduction

This tutorial examines the flow of ink as it is ejected from the nozzle of a printhead in an inkjet printer. Using ANSYS FLUENT's volume of fluid (VOF) multiphase modeling capability, you will be able to predict the shape and motion of the resulting droplets in an air chamber.

This tutorial demonstrates how to do the following:

- Set up and solve a transient problem using the pressure-based solver and VOF model.
- Copy material from the property database.
- Define time-dependent boundary conditions with a user-defined function (UDF).
- Patch initial conditions in a subset of the domain.
- Automatically save data files at defined points during the solution.
- Examine the flow and interface of the two fluids using volume fraction contours.

### 20.2. Prerequisites

This tutorial is written with the assumption that you have completed one or more of the introductory tutorials found in this manual:

- *Introduction to Using ANSYS FLUENT in ANSYS Workbench: Fluid Flow and Heat Transfer in a Mixing Elbow* (p. 1)
- *Parametric Analysis in ANSYS Workbench Using ANSYS FLUENT* (p. 77)
- *Introduction to Using ANSYS FLUENT: Fluid Flow and Heat Transfer in a Mixing Elbow* (p. 131)

and that you are familiar with the ANSYS FLUENT navigation pane and menu structure. Some steps in the setup and solution procedure will not be shown explicitly.

### 20.3. Problem Description

The problem considers the transient tracking of a liquid-gas interface in the geometry shown in [Figure 20.1](#) (p. 840). The axial symmetry of the problem enables a 2D geometry to be used. The computation mesh consists of 24,600 cells. The domain consists of two regions: an ink chamber and an air chamber. The dimensions are summarized in [Table 20.1: Ink Chamber Dimensions](#) (p. 840).

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