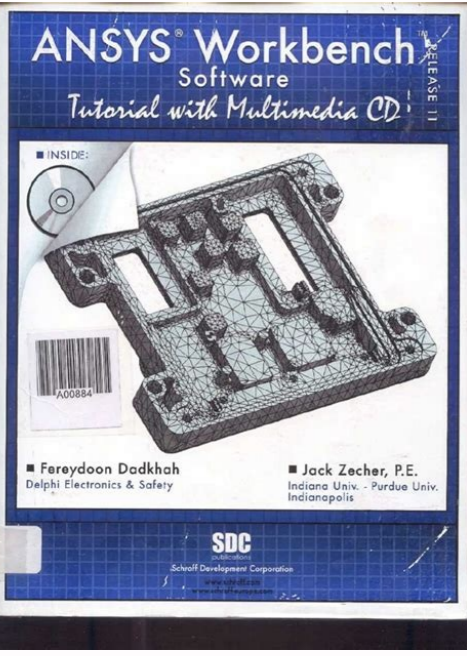


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Tutorial 1: Simulating Flow in a Static Mixer Using CFX in Standalone Mode: Viewing the Results in ANSYS CFX Post

- Procedure**
1. Right-click a blank area in the viewer and select **Predefined Camera > Isometric View (Z up)** from the shortcut menu.
 2. Click the **Geometry** tab.
Review the settings in **Definition** under **Point** and under **Normal**.
 3. Click **Single Select**.
 4. Click and drag the plane to a new location that intersects the domain.
As you drag the mouse, the viewer updates automatically. Note that **Point** updates with new settings.
 5. Set **Point** settings to 0, 0, 1.
 6. Click **Apply**.
 7. Click **Rotate**.
 8. Turn off visibility for **Plane** by clearing the check box next to **Plane** in the **Outline**.

Adding Contours

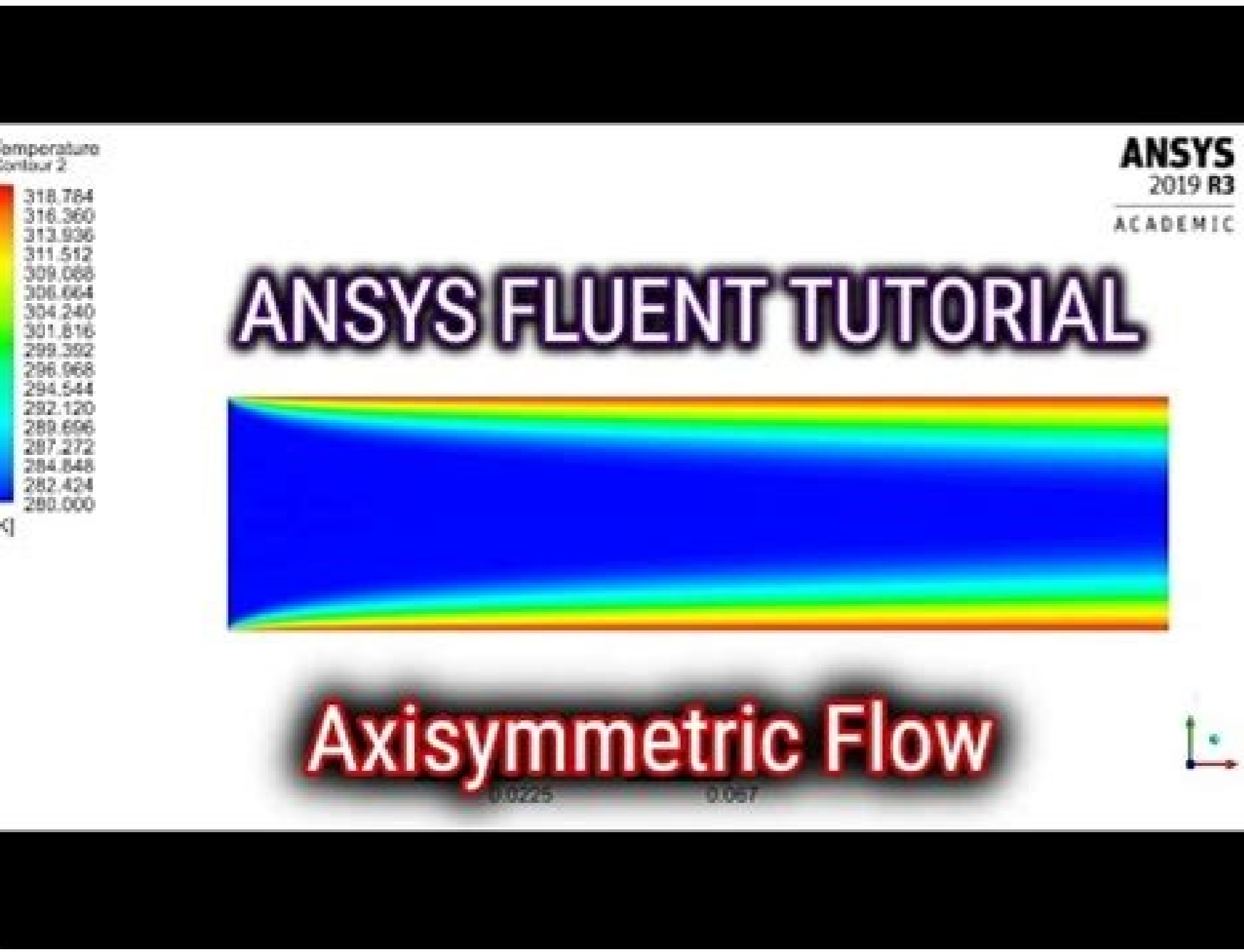
Contours connect all points of equal value for a scalar variable (for example, temperature) and help to visualize variable values and gradients. Colored bands fill the spaces between contour lines. Each band is colored by the average color of its two bounding contour lines (even if the latter are not displayed).

- Procedure**
1. Select **Insert > Contour** from the main menu or click **Contour**.
 - The **New Contour** dialog box is displayed.
 - Set **Name** to **Plane Contour**.
 - Click **OK**.
 - Apply the following settings:

Tab	Setting	Value
Geometry	Locations	Plane
	Variable	Temperature
Render	Draw Faces	(Selected)

5. Click **Apply**.

Important: The colors of 3D graphics object faces are slightly altered when lighting is on. To view colors with highest accuracy, clear **Lighting** under **Draw Faces** on the **Render** tab and click **Apply**.





ANSYS Mechanical APDL Verification Manual

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Acronym for the American National Standards Institute. Founded in 1918, ANSI is a voluntary organization composed of over 1,300 members (including all the large computer companies) that creates standards for the computer industry. For example, ANSI C is a version of the C language that has been approved by the ANSI committee. To a large degree, all ANSI C compilers, regardless of which company produces them, should behave similarly. In addition to programming languages, ANSI sets standards for a wide range of technical areas, from electrical specifications to communications protocols. For example, FDDI, the main set of protocols for sending data over fiber optic cables, is an ANSI standard. ANSYS Fluent Tutorial Guide ANSYS, Inc. Southpointe 2600 ANSYS Drive Canonsburg, PA 15317 (T) 724-746-3304 (F) 724-514-9494 Release 19.0 January 2018 ANSYS, Inc. and ANSYS Europe, Ltd. are UL registered ISO 9001:2008 companies. Copyright and Trademark Information © 2017 ANSYS, Inc. Unauthorized use, distribution or duplication is prohibited. ANSYS, ANSYS Workbench, AUTODYN, CFX, FLUENT and any and all ANSYS, Inc. brand, product, service and feature names, logos and slogans are registered trademarks or trademarks of ANSYS, Inc. or its subsidiaries located in the United States or other countries. ICFM CFD is a trademark used by ANSYS, Inc. under license. CFX is a trademark of Sony Corporation in Japan. All other brand, product, service and feature names or trademarks are the property of their respective owners. FLEXim and FLEXnet are trademarks of Flexera Software LLC. Disclaimer: Notice THIS ANSYS SOFTWARE PRODUCT AND PROGRAM DOCUMENTATION INCLUDE TRADE SECRETS AND ARE CONFIDENTIAL AND PROPRIETARY PRODUCTS OF ANSYS, INC., ITS SUBSIDIARIES, OR LICENSORS. The software products and documentation are furnished by ANSYS, Inc., its subsidiaries, or affiliates under a software license agreement that contains provisions concerning non-disclosure, copying, length and nature of use, compliance with exporting laws, warranties, disclaimers, limitations of liability, and remedies, and other provisions. The software products and documentation may be used, disclosed, transferred, or copied only in accordance with the terms and conditions of that software license agreement. ANSYS, Inc. and ANSYS Europe, Ltd. are UL registered ISO 9001:2008 companies. U.S. Government Rights For U.S. Government users, except as specifically granted by the ANSYS, Inc. software license agreement, the use, duplication, or disclosure by the United States Government is subject to restrictions stated in the ANSYS, Inc. software license agreement and FAR 12.212 (for non-DOD licenses). Third-Party Software See the legal information in the product help files for the complete Legal Notice for ANSYS proprietary software and third-party software. If you are unable to access the Legal Notice, contact ANSYS, Inc. Published in the U.S.A. Table of Contents Using This Manual

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velocity-inlet-4 from the Boundaries selection list. d. Click Compute. Note that the net mass flow rate of water is a small fraction of the inlet and outlet flow rates (

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