Ansys Fluent 13 Theory Guide

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13.2.1 Overview. Sulfur exists in ... the SOx concentration field should be resolved together with the main combustion calculation using any of the ANSYS FLUENT reaction models. For cases where the sulfur fraction in fuel is low, the post-processing option can be used, which solves transport equations for , , SO, SH, and .

ANSYS FLUENT 12.0 Theory Guide - 13.2.1 Overview

ANSYS FLUENT 12.0 Theory Guide - 13.1.7 NOx Reduction by Reburning. 13.1.7 NOx Reduction by Reburning. The design of complex combustion systems for utility boilers, based on air- and fuel-staging technologies, involves many parameters and their mutual interdependence. These parameters include local stoichiometry, temperature and chemical concentration field, residence time distribution, velocity field, and mixing pattern.

ANSYS FLUENT 12.0 Theory Guide - 13.1.7 NOx Reduction by ...

13.3.2 Soot Model Theory. The One-Step Soot Formation Model. In the one-step Khan and Greeves model [162], ANSYS FLUENT solves a single transport equation for the soot mass fraction: (13.3-1) where = soot mass fraction = turbulent Prandtl number for soot transport

ANSYS FLUENT 12.0 Theory Guide - 13.3.2 Soot Model Theory

13.1 NOx Formation. The following sections present the theoretical background of NOx prediction. For information about using the NOx models in ANSYS FLUENT, see this section in the separate User's Guide.

ANSYS FLUENT 12.0 Theory Guide - 13.1 NOx Formation

Ansys Fluent 13.0 Theory Guide The green roof system for a building involves a green roof that is partially or completely covered with vegetation and plant over a waterproofing membrane. Green roofs provide shade and remove heat from the air through evapotranspiration, reducing temperatures of the roof surface and the surrounding air.

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Using This Manual. 1. Basic Fluid Flow. 2. Flows with Rotating Reference Frames. 3. Flows Using Sliding and Deforming Meshes. 4. Turbulence.

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15. Discrete Phase. This chapter describes the theory behind the Lagrangian discrete phase capabilities available in ANSYS FLUENT.For information about how to use discrete phase models, see this chapter in the separate User's Guide.

ANSYS FLUENT 12.0 Theory Guide - 15. Discrete Phase
In ANSYS FLUENT, combustion at the fine scales is assumed to occur as a constant pressure reactor, with initial conditions taken as the current species and temperature in the cell. Reactions proceed over the time scale , governed by the Arrhenius rates of Equation 7.1-8 , and are integrated numerically using the ISAT algorithm [277].

ANSYS FLUENT 12.0 Theory Guide - 7.1.2 The Generalized ...

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One Cycle