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~~Density?~~ Derivation of

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1(Basic Flow

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13.2.1 Overview. Sulfur

exists in ... the SO<sub>x</sub>

concentration field

should be resolved

together with the main

combustion calculation

using any of the ANSYS

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FLUENT 12.0 reaction

models. For cases where the sulfur fraction in fuel is low, the post-processing option can be used, which solves transport equations for  $\text{SO}_2$ ,  $\text{SO}$ ,  $\text{SH}$ , and  $\text{S}$ .

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Overview

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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,

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temperature and chemical concentration field, residence time distribution, velocity field, and mixing pattern.

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NOx Reduction by ...

13.3.2 Soot Model

Theory. The One-Step

Soot Formation Model.

In the one-step Khan

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and Greeves model [162], ANSYS FLUENT solves a single transport equation for the soot mass fraction: (13.3-1) where  $\rho_s$  = soot mass fraction = turbulent Prandtl number for soot transport

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Soot Model Theory  
13.1 NO<sub>x</sub> Formation.

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The following sections present the theoretical background of NO<sub>x</sub> prediction. For information about using the NO<sub>x</sub> models in ANSYS FLUENT, see this section in the separate User's Guide.

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Theory Guide - 13.1

NO<sub>x</sub> Formation

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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

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of the roof surface and  
the surrounding air.

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with Moving Reference  
Frames; 3. Flows Using  
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5. Heat Transfer; 6.  
Heat Exchangers; 7.  
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15. Discrete Phase. This

chapter describes the

theory behind the

Lagrangian discrete

phase capabilities

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available in ANSYS  
FLUENT. For  
information about how  
to use discrete phase  
models, see this chapter  
in the separate User's  
Guide.

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Discrete Phase  
In ANSYS FLUENT,  
combustion at the fine  
scales is assumed to

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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 ].

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interface has workflow  
that is easily learned by  
new or infrequent users,  
while remaining  
efficient, powerful and  
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5.86 Improvement 30%

51% 85% 0 2 4 6 8 10

12 14 16 18 20) Engine

Crankcase Lubrication

Model Total Run Time

per One Cycle

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