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process of mimicking  
the behavior of fluid  
flow in a.

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Reservoir simulation  
tasks. •Gather and  
input the rock and  
fluids data (reservoir  
description) •Choose  
certain numerical  
features of the grid  
(number of cells, cells  
size, etc) •Setup the  
correct field wells

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controls (injection rates, bottom hole pressure constrains, etc). This drives the model.

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scientific sense of the word, they understand a real or mentally created structure that reproduces or reflects the object being studied. The name of the model comes from the Latin word *modulus*, which means “measure, pattern”. Modeling is one of the main methods of knowledge of nature and society. It is ...

**Reservoir simulation**  
*Page 16/25*

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Traditional finite ...

allowing temperatures to change within the reservoir. Numerical techniques and approaches that are common in modern simulators:

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of the underlying  
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In some miscible applications, the “smearing” of the flood front, also called numerical dispersion, may be a problem. Reservoir simulation is used extensively to identify opportunities to increase oil production in heavy oil deposits. Oil recovery is improved by lowering the oil viscosity by injecting steam or hot water.

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Young L and Zarantonello S High performance vector processing in reservoir simulation Proceedings of the 1991 ACM/IEEE conference on

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