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is commonly

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majority of

reservoir

engineering

calculations

because it is

considered a

reasonable

approximation

that as fluids

are produced,

and so remove

heat from the

reservoir by

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cap and base  
rock, which are  
assumed to act  
as heat sources  
of infinite  
extent,  
immediately  
replace this  
heat by  
conduction so  
that the  
reservoir  
temperature  
remains



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constant.

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Most reservoir  
engineering  
calculations  
involve the use  
of the material  
balance equation  
(MBE). Some of  
the most useful  
applications of  
the MBE require  
the concurrent

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use of fluid flow equations. Combining the two concepts would enable the engineer to predict the reservoir future production performance as a function of time.

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and students in  
the oil and gas  
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explanations of  
key theoretic  
and mathematical  
concepts and  
provides readers  
with the logical  
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challenges  
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material balance  
and reservoir  
performance  
prediction.

These are  
illustrated by  
building and  
matching  
reservoir models  
in commercial  
software such as  
MBAL and Saphir.

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known as

superposition.

It is only

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Superposition in Time Assume we have an analytical solution,  $p_{\text{const}}(q, r, t)$ , to the problem of a well producing at a constant rate in a given reservoir. Using superposition in time



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production were  
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Drilling  
penetration  
rates increased  
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100 percent from  
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simulation is an  
area of

reservoir  
engineering  
that, combining  
physics,  
mathematics, and  
computer  
programming to a  
reservoir model  
allows the  
analysis and the

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