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Nancy D
Naeser Thane
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and continental
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boundaries where
continental rifting
is occurring can
create a nascent
ocean basin leading
to either an ocean
or the failure of
the rift zone'

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temperature is the
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and restoration
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of sedimentary
basins are critical
sources of
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provide us with
windows into past
and present

tectonic processes
and the
configuration of
the crust and
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sedimentary rocks
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maturation are
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in particular we
assume that the
effects of a more
plex sedimentary
history on the
evolving geothermal
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the stepwise
constant burial
rates in the
discrete
sedimentation
events shown in fig
1 can be accounted
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diffusivity for the
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source rock

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coal and clastic
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will present burial
history maturation
window hydrocarbon
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results of the area
the main points are
the vertical extent
of strata which can
be the source rock
for mature
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specific heat fluid
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sedimentary layer
depth'

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modeling of the
burial thermal and**

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this book is
devoted to the
field of basin
analysis and in
particular to the
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modeling of the
burial thermal and
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histories of
sedimentary basins
in the context of
evaluating their
hydrocarbon
potential a new

*modeling system is
elaborated in this
work and applied to
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coal are shown to
be in agreement
with observations a
significant result

is that no change
in geothermal
gradient with
respect to that
presently observed
is needed to
explain
coalification'

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basin analysis
topics include
classification and
evaluation of
sedimentary basins

tectonics and
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tectonic context
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magmatic intrusions
affect the basin
temperature in
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faulting and
physical properties

of the basin may influence the magnitudes of their thermal effects and the potential source rock maturation we present results from a sensitivity study of the most important factors affecting the thermal history in structurally plex sedimentary basins with magmatic sill intrusion

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rich province
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hydrocarbon

generation process
involves solving
heat flow equations
given initial and
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basins based on
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'inverse thermal

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as a hydrocarbon
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thermal history
modelling is a
significant part of
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exploration and
resource assessment
its primary use is
to predict the
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of hydrocarbon
generation as a
sedimentary basin
evolves on
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the basins the reconstructed burial and thermal histories of the west bashkiria rhiphean basins are illustrated in fig 2 here two examples are shown the first of which characterizes the western areas of the study region with moderate rhiphean subsidence wells 1 3 11 12 in fig 1 and the

second the eastern
areas with
significant riphean
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thermal maturation
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basin based on both
methods presented
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sweeney and burnham
indicates that
paleothermal

gradient of this basin in paleozoic era is significantly higher than that at present in the central and northern areas of the basin paleothermal gradient during paleozoic era is $3.2 \text{ } ^\circ\text{C} / 100\text{m}$ and cools down slowly to $2.5 \text{ } ^\circ\text{C} / 100\text{m}$ during mesozoic' 'read the dynamics of

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the challenges of
basin research are
to understand why
sedimentary basins
formed where they
have and subsided
when they did to
characterize the
properties of
basins and their
fill and to
identify the
processes that have
modified basin

materials and their
contained fluids'

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sedimentary basins
sedimentary basins
are regions of the
earth s crust
dominated by
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subsidence provides

the depocentre for
sediments such as
sandstones mudrocks
and limestones to
accumulate in some
cases to a
thickness gt 10 km
each continent has
sedimentary basins
including
antarctica'

**' types of
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