

Name: _____

PLATE TECTONICS PRACTICE QUIZ**MULTIPLE CHOICE:** Please choose the BEST answer for each of the following questions: (2 pts each)

1. **A** If you used the theory of plate tectonics to predict the most likely place for the next earthquake or volcanic eruption, you should predict that it is most likely to occur:
a.) Along boundaries between colliding lithospheric plates
b.) Where one has not happened in at least 10 million years
c.) In the interior of any continent
d.) Where two plates are diverging from one another.
2. **D** Seafloor spreading occurs at:
a.) subduction zones
b.) terraine boundaries
c.) transform faults
d.) divergent boundaries
3. **B** The region along a plate boundary where one plate is forced under another plate is called a:
a.) rift valley
b.) subduction zone
c.) paleomagnetic band
d.) transform fault
4. **B** As rock moves away from a mid-ocean ridge, it is replaced by:
a.) continental crust
b.) molten rock
c.) suspect terraines
d.) older rock
5. **B** How did the Himalayan Mountains form?
a.) Two continental plates diverged
b.) Two continental plates converged
c.) Two oceanic plates converged
d.) An oceanic plate and a continental plate converged

6-9. Label the schematic diagram showing the layered structure of the Earth and describe the consistency of that layer (ie. Solid, liquid, gas, etc.) - 2 pts each:

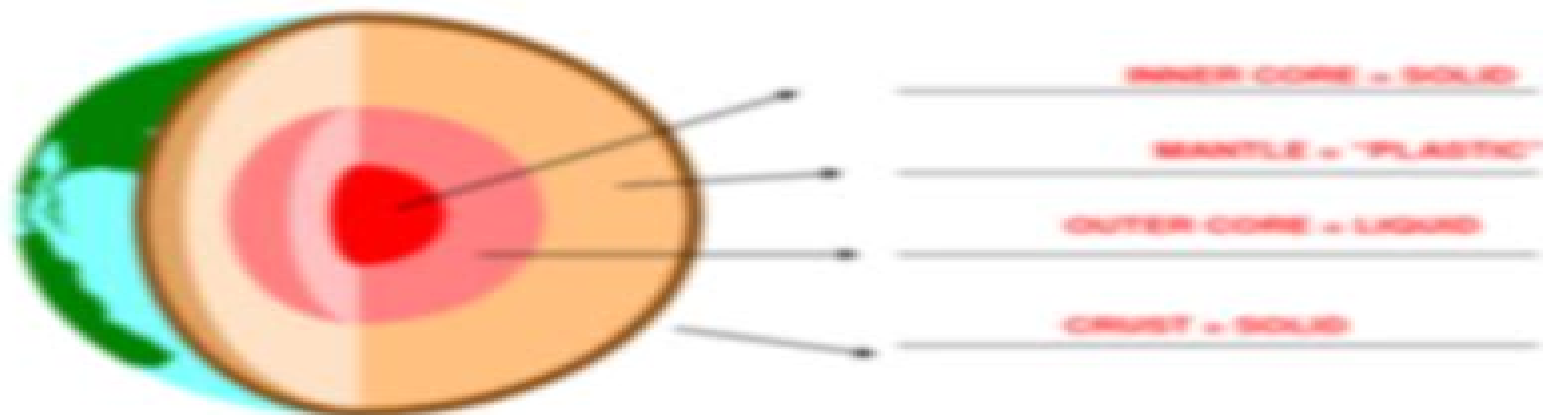


Plate Tectonics Study Guide Answer Key

John Grotzinger, Thomas H. Jordan



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how does abaqus implement the plastic strain rate - Jul 26 2022

web i have a simple question regarding implementation of rate dependent yield in the plasticity module of abaqus for the rate dependent plasticity the flow stress σ has been defined the

rate dependent washington university in st louis - Feb 18 2022

web if this parameter is omitted it is assumed that the rate dependent material behavior depends only on temperature see specifying field variable dependence in material data definition section 16 1 2 of the abaqus analysis user s manual for more

information

strain rate dependent component based connection modelling for use - Sep 27 2022

web oct 1 2013 this paper introduces the use of rate dependent springs to component based joint models this allows strain rate hardening as well as strain rate induced reductions in ductility to be included in component spring models for

material data definition massachusetts institute of technology - Apr 03 2023

web abaqus cae usage property module material editor name use the menu bar under the material options list to add behaviors to a material large strain considerations when giving material properties for finite strain calculations stress means true cauchy stress force per current area and strain means logarithmic strain

defining rate dependent yield with yield stress ratios - Mar 02 2023

web abaqus allows you to define a material s yield behavior accurately when the yield strength depends on the rate of straining and the anticipated strain rates are significant you can define strain rate dependence in two ways enter hardening curves at different strain rates directly as described in the following sections

modelling time dependent behavior of buried polyethylene pipes using abaqus - Aug 27 2022

web constant strain rates ranging from 10^{-5} s to 10^{-1} s these strain rate dependent stress strain relations are used in the input file and were simulated using fe modelling using abaqus same size of the specimen i e 12.7 mm diameter and 25.4m height is modelled in the fe analysis figure 1 shows the fe mesh developed both