



**Basic Education**  
**KwaZulu-Natal Department of Education**  
**REPUBLIC OF SOUTH AFRICA**

**PHYSICAL SCIENCES: PHYSICS (P1)**

**COMMON TEST**

**JUNE 2016**

**NATIONAL  
SENIOR CERTIFICATE**

**GRADE 11**

**MARKS: 100**

**TIME : 2 hours**

**This question paper consists of 10 pages, 1 data sheet and 1 graph sheet.**

# Physical Science 2014 June Question Paper

**DP Hallahan**



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

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a pneumatic test poses a significant hazard due to the amount of stored energy in the compressed gas a rupture could result in an explosive release of energy for example an explosion of a 200 ft 60 m of 36 in pipe containing 500 psi 3500 kpa can create a blast wave nearly equivalent to 80 lb 35 kg of tnt

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pressure test is required for a new pressure system before use or an existing pressure system after repair or alteration there are two methods for pressure tests hydrostatic and pneumatic a hydrostatic test is performed by using water as the test medium whereas a pneumatic test uses air nitrogen or any non flammable and non toxic gas

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web toggle on use strain rate dependent data in the material editor a column labeled rate appears in the tabular data area fill in each row with the appropriate values for special table editing options or to read data from an ascii file press mouse button 3 for more information see entering tabular data

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web the concrete damaged plasticity model can be regularized in abaqus standard using viscoplasticity by permitting stresses to be outside of the yield surface we use a generalization of the duvaut lions regularization according to which the viscoplastic strain rate tensor  $\epsilon_{vp}$  is defined as

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web abaqus cae property module optional parameters dependencies in an abaqus explicit analysis this parameter is relevant only for type power law or type yield ratio set this parameter equal to the number of field variable dependencies in the definition of material parameters in addition to temperature

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web mar 5 2015 given you have a target strain rate on a defined element set the pressure will be calculated in order that the maximum strain rate on this element set is always between 0.708 and 1.5

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web to overcome this problem abaqus explicit computes the equivalent plastic strain rate used for the evaluation of strain rate dependent data in terms of a factor that facilitates filtering the high frequency oscillations you can specify the value of the strain rate factor

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web strain rate dependence can be defined by entering hardening curves at different strain rates directly or by defining yield stress ratios to specify the rate dependence independently direct entry of test data

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web input file usage use the following options to include creep behavior in the material model definition material creep use the following options to define creep in conjunction with gasket behavior gasket behavior creep abaqus cae usage property module material editor mechanicalplasticitycreep choosing a creep model

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web the strain rate can be defined by creating a variable in a subroutine and assigning it to the desired strain rate value but in order to be better able to answer i need you to explain more

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web young's modulus  $200 \times 10^3$  the rate dependence parameters are as follows for the test that verifies the temperature dependencies the power law is entered as a piecewise linear relationship for the cases in which rate dependent test data are specified directly the units are not important

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dependent plasticity the flow stress  $\sigma$  has been defined the

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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

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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 25.4 mm height is modelled in the fe analysis figure 1 shows the fe mesh developed both