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7ford Ka Manual

Michael Hoelscher



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web circle the correct answers the mass of the system a b is $m + 2m$ the force that accelerates a b is the weight of a b the weight of b is mg 2 acceleration of a b is less than mg 2 mg g g more than g use a to show the acceleration of a b as a fraction of conceptual physics

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web t t toward center of circle yes yes yes f f because centripetal acceleration is not zero n n yes provides centripetal force for circular motion conceptual physics

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web dec 11 2012 1 kg consider the acceleration of the cart when the applied force is due to a 10 n iron weight attached to a string draped over pulley will the cart accelerate as before at 10 m/s^2 the answer is no because the mass being accelerated is the mass of the cart plus the mass of the piece of iron that pulls it both masses accelerate

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web dec 12 2012 1 draw sample force of shown hand 3 a which the b which the 4 it is important to distinguish between force and velocity vectors force vectors combine with other force vectors and velocity vectors combine with other velocity vectors do velocity vectors combine with force vectors no 5

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web circle the correct answers 5 we see that tension in a rope is dependent on independent of the length of the rope so the length of a vector representing rope tension is dependent on independent of the length of the rope concept development 2 2 practice page

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web concept development practice page 3 2 inertia circle the correct answers 1 an astronaut in outer space away from gravitational or frictional forces throws a rock the rock will gradually slow to a stop continue moving in a straight line at constant speed the rock's tendency to do this is called inertia weight acceleration 2

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web concept development practice page 10 2 the flying pig the toy pig flies in a circle at constant speed this arrangement is called a conical pendulum because the supporting string sweeps out a cone neglecting the action of its flapping wings only two forces act on the pig gravitational mg and string tension t vector component analysis

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web 3 simultaneously speed of light 6 1 12 through across b a 4 and 6 5 not lit 4 and 6 2 25 v each b greater current same voltage b more power conceptual physics

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web practice page work and energy 1 how much work energy is needed to lift an object that weighs 200 n to a height of 4 m 800 j 2 how much power is needed to lift the 200 n object to a height of 4 m in 4 s 200 w 3 what is the power output of an engine that does 60 000 j of work in 10 s 6 kw 4 the block of ice weighs 500 newtons a

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web mar 4 2013 the distance between the balls decreases the wavelength decreases just as the distance between the balls in question 5 decreases 30 m 30 cm 1 m s

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web our intuitive definition of force that is a push or a pull is a good place to start we know that a push or pull has both magnitude and direction therefore it is a vector quantity and can vary considerably in each regard for example a cannon exerts a strong force on a cannonball that is launched into the air

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web jan 14 2013 class date momentum 1 a moving car has momentum if it moves twice as fast its momentum is twice as much 2 two cars one twice as heavy as the other move down a hill at the same speed compared to the lighter car the momentum of the heavier car is twice as much 3 the recoil momentum of a cannon that kicks is

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generating a substructure a single analysis can include multiple substructure generate steps and abaqus cae creates corresponding output database files for each step multiple preloading steps can precede every substructure generation step in your analysis

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this example shows you how to create a substructure and use it four times in the model as a leg support for storage vessel

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a substructure database is the set of files that describe the mechanical and geometrical properties of a substructure and abaqus writes all substructure data to the substructure database during the substructure generation analysis

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dec 17 2013 i have created a substructure in abaqus as output i will like to see the substructure matrices mass stiffness and damping matrices however i m only able to write the mass and stiffness matrices to an output file mtx does anyone know how to create an output file including both the mass stiffness and damping matrices of the substructure

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the basic substructuring idea is to consider a substructure a part of the model separately and eliminate all but the degrees of freedom needed to connect this part to the rest of the model so that the substructure appears in the model as a substructure

a collection of finite elements whose response is defined by the stiffness and mass o

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limitations of structural elements membrane elements cannot be used to overlay a substructure that consists of second order three dimensional brick elements of type c3d20 r h if the substructure will be used as a slave surface normally abaqus standard automatically converts c3d20 r h brick elements to elements with midface nodes c3d27 r h because this

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in abaqus standard the response within a substructure once it has been reduced to a substructure is considered to be a linear perturbation about the state of the substructure at the time it is made into a substructure

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set this parameter equal to yes default if the substructure eigenproblem needs to be solved during substructure generation in abaqus substructure eigenvectors can be used to define substructure modal damping for a given substructure abaqus standard will evaluate the stiffness associated with frequency dependent springs and dashpots at

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the purpose of this example is to provide basic demonstration and verification of the substructuring capabilities in abaqus problem description the example is a frame consisting of two columns connected by a beam figure 1 16 1 1 the columns and the beam are each modeled with 10 elements of type b21 once a substructure has been