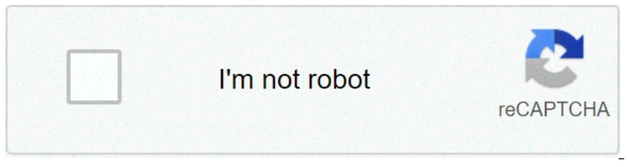

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Archimedes principle lab answers

In this laboratory fluid pressure properties are first investigated. It will then determine the density of a metal block applying the principle of Archimedes. Open a Microsoft Word document to keep a log of procedures, results and experimental discussions. This log will form the basis of your lab report. Please turn the highlighted points in blue. Answer all the questions. Experimentation Archimedes The principle states that an object partially or entirely immersed in a gas or liquid is acted by a booyant force upwards B equal to the weight of the gas or liquid moving. In this experiment this occurs by measuring the apparent weight loss of different submerged objects and finding the weight of the displaced liquid. It also determines the density of objects. A PASCO force sensor is used to measure weights. Equipment that were used to produce experimental data below: Force sensor Two containers, one with and one without overflow spout Various solid objects Procedure: I. Verify the principle of Archimedes using the data below. Click a small image if you want to see an enlarged image. (a) (c) (d) Subject 1: Subject: Subject: Subject 4: For each object: (a) Determine the Wc weight of the empty container with the handle. When the container is suspended from the force sensor, the force sensor measures the gravity force (weight) acting on the object, and the program displays the magnitude of this force (in N) oncomputer screen. b) Determine the weight of a Wo object when it is suspended over the container with the overflow spout. This container is completely filled with water, and the container with the handle standing under the spout is empty. (c) Determine the apparent weight of the Wow object after it was lowered into water. Because the object is lowered into the water, the water pours out of the spray of too much. The container with the handle collected this water. d) Determine the Wcw weight of the container with the handle that keeps the water collected. Record weights in a spreadsheet as below screenshot shown. Wc Wo Wow Wcw Ww Fb (Fb-Ww)/Fb Object 1 Object 2 Object 3 4 For each object: Calculate the weight of the water that has been moved. Ww = Wcw- Wc. Register it in the spreadsheet. Calculates the difference between the weight of the object in the air and its apparent weight in the water. This difference produces the floating force Fb. Fb = Wo - Wow. Compare Fb and Ww. Calculate the percentage difference = 100% (Fb - Ww)/Fb and record it in the spreadsheet. II. Determine the density of objects. Extend Excel spreadsheet. Set the labels as below screenshot shown. mo mw Vw po material Object 1 Object 2 Object 3 Object 4 Determine the mass motion of each object by dividing itsfrom acceleration due to gravity and register it in the spreadsheet. from the water weight moved by the object calculate its mass mw and record it in the spreadsheet. use the water density, 1000 kg/m3, and the bulk of the displaced water, to calculate the volume vw of the displaced water. record this volume in the spreadsheet. the volume of the displaced water is the same as the volume of the object. calculate the density of the object (ρ = m/V) and record it in the spreadsheet. compare the density found with the density of the materials shown in the table below. tries to identify the material of which each object is made. if it is not possible to identify the material based on the density alone, even consider the appearance of the material. (brass and steel have a different color.) material density (kg/m3) aluminium 2.7*103 brass 8.7*103 lead 11.3*103 steel 7.9*103 water 1.0*103 registry entries: shows the spreadsheet entries on the i and ii side. answer the following questions: according to the principle of archimedes, the floating force is equal to the weight of the displaced liquid. do experimental results verify the principle of archimedes? comment on your results. Do your experimentally determined density of the various materials agree with the density given in the table? comment on your results. Exploration open the simulation under pressure. the interface will see an underground basin containing a liquid the top of the basin is at seayou can use multiple tools to make measurements. sensors are very sensitive, so you can expect some variations in readings. the cry option makes it easier to estimate the height of the fluid. discover how pressure in the liquid changes depending on depth, liquid density, filling level and external conditions. answer the questions below, always supporting the answer with the data from a measure. since the pressure sensor is moved deeper into the liquid, how does the pressure change? because the liquid is added or removed from the basin, how does the pressure change near the bottom of the tank? How does pressure change in the water when the atmosphere is removed? maintain all other equal conditions, the pressure a given distance below the surface depends on the shape of the basin? How is the density of the fluid linked to the pressure it exercises? How does the fluid pressure change by increasing gravity? when g = 9,8 m/s2, how does the pressure change (in pa) for each meter of water depth? for static fluids tells us how pressure in a fluid column depends on the position above the bottom where the pressure is measured. p1 + ρgh1 = p2 + ρgh2. for moving fluids gives us a relationship between fluid pressure, speed and vertical position. if, for example, a liquid (or a gas that is not compressed) flows without friction in a constant state through a horizontal tube with a variable cross zone, the pressure depends onfluid. The faster the fluid flows, the lower the pressure at the same height. This may seem counterintuitive to you, but it is a consequence of energy conservation. The molecules of a fluid at room temperature are always moving, although the liquid at its set is resting. This disordered movement is responsible for the pressure exerted by the fluid, even in gravity-free space. In a pipe, it results in collisions with the walls. If a fluid flows through a horizontal tube at a constant speed, molecules also ordered movement. In a narrow section of the tube the fluid flows faster, and more than its energy goes into the ordered movement. This leaves less energy for casual movement and therefore results in softer collisions and lower pressure. Exercise (i) Take your hands on the table in front of you and locate a bulging vein. Slowly raise your hand until it is well above your head, while constantly looking at that vein. What's going on? What height above the shoulders do you notice a change? Describe your comments. Slowly lower your hand while still looking at the vein. Repeat the process. Do you have an explanation for your comments? (i) Lay two thick books about 10 cm away. Put a sheet of paper on the books so that it fills the gap between them. Try to blow the paper out of the books under. Describe what happens. Do you have an explanation for your comments? Keep two sheets ofvertically about 5 cm away. Blow the sheets apart by blowing hard between them. Describe what happens. Do you have an explanation for your comments? Keep a straw vertically in a glass of water so that the top of the straw designs over the top of the glass. Place a second straw perpendicular to the first so that the end of the second straw is almost touching the opening of the first, but does not block it. Blow the second straw. Describe what happens. Do you have an explanation for your comments? Register your comments and explanations in your register. Convert your log to a lab report. Name: E-mail address: Laboratory Report 7 In one or two phrases, it indicates the objective of this laboratory. Enter your register with the required charts and answers to questions in blue. Save Word document (your name_lab6.docx), go to Canvas, Assignations, Lab 7, and send your document. document.

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