

Re: Water wave question..

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- *From:* "Spaceman" <spaceman@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Thu, 3 Jul 2008 22:58:16 -0400
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hhc314@xxxxxxxx wrote:

On Jul 2, 5:53 pm, "Spaceman" <space...@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote:

If a 1 centimeter sphere that floats in water half way normally just sitting there and has a mass of 1gram, were dropped from 2 centimeters above the water... What would the wave length from the first peak to the second peak be, and what would the height of that peak also be? (anyone know an applet on the web that might do this stuff maybe?)

If you want to make fun of me and my crazy ideas please do post an answer to the above question.
:)

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James M Driscoll Jr
Spaceman

OK James, and you already know what a stickler for details I am, I have to think about the problem that you are posting rather than providing an univormed knee-jerk response, as most posters have already done.

Believing in the values of numbers, here is how I would first approach your questioned. First, will the ball that you described actually float. This is a buoyancy question that essentially deals with will a object of the dimensions and mass that you have postulated sink or float. If it diaplaces a volume of water less than its mass, it will float; if it displaces a volume of water it will be neutrally buoyant; if if diaplaces a volume of water less than its mass it will sink.

Now, lets run the numbers...

Using the forumla $V = \frac{4}{3} \pi \times R^3$, the radius of a ball 1-Cm in diameter with a radius of .5 Cm, the volume is roughly 0.526 cubic centimeters. Since its density is nearly twice that of water, it will

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not float, but sink quickly to the bottom. (Not sure that I trust that computation from the Net, but I'm tonight too tired to perform it myself, so I got it using Google.

Yup,
found out,
I measured wrong completely and I am actually ashamed
of myself.
But at least I will admit it.
:)
This whole thread will be ignored since it is all based
on bologna.
:)

Remaining questions are pointless.

I'm surprise that none of the other posters on the newsgroup didn't post this out to you previously Draw you own conclusions about other posters, James, always verify the information that I post (or that anyone posts). In my case, it is as accurate as I can make it. I'm not always correct, but am in most cases.

James, when you get into discussion resonances and stand waves in a water of measurable depth, the computations become rather complex, which I believe that this is a concept that you fully grasp. Quite honestly, even considering the analysis and math gives me brain strain that at my age my doctors have suggested that I avoid. Although I have could have the walls covered with various photos and diploma wallpaper I don't.

I prefer to think of myself as an old New Jersey farmer and part-time auto mechanic who has some knowledge of physics. Take this information for what you believe it to be worth.

I do respect your answers Harry,
You actually also allow thought unlike most that jump right in without any thought sometimes at all..
(basically like I did on this question.)
:)
Totally my bad.
this question has been thrown in the trash along
with the ruler I used and goofed up the measurement
(blank area before the 0.. I hate the fact that I did not notice that,
I am usually way better than that when measuring things.
anyways.
I admit it.

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I goofed up.

I can't wait to see if any of my puppy dogs ever admit
a fault.. of course.. they won't because they are all super brains
that have no faults..

except of course when they don't understand how clocks work
and prove that all the "time".

:)

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James M Driscoll Jr
Spaceman

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