

Answer on Question#51976 - Physics - Other

What is the gravitational field strength at a height h above the surface of the Earth? R is the radius of the earth.

Solution:

The gravitational field strength is another name for acceleration due to gravity, which at some altitude h above the earth's surface is given by

$$g_h = \frac{GM}{(R + h)^2},$$

where M – is the mass of the earth, G – is the gravitational constant.

Answer: $g_h = \frac{GM}{(R+h)^2}$.

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