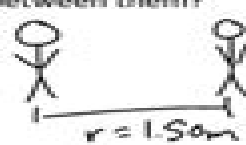


Worksheet 5.1 - Newton's Law of Universal Gravitation

1) Two students are sitting 1.50 m apart. One student has a mass of 70.0 kg and the other has a mass of 52.0 kg. What is the gravitational force between them?



$$F_g = \frac{G M m}{r^2}$$

$$= \frac{(6.67 \times 10^{-11})(70.0)(52.0)}{(1.50)^2}$$

$$= \underline{1.08 \times 10^{-7} \text{ N}}$$

2) What gravitational force does the moon produce on the Earth if their centers are 3.88×10^8 m apart and the moon has a mass of 7.34×10^{22} kg?

$$F_g = \frac{G M m}{r^2} =$$

$$\frac{(6.67 \times 10^{-11})(5.98 \times 10^{24})(7.34 \times 10^{22})}{(3.88 \times 10^8)^2}$$

$$= \underline{1.94 \times 10^{20} \text{ N}}$$

3) If the gravitational force between objects of equal mass is 2.30×10^{-8} N when the objects are 10.0 m apart, what is the mass of each object?

$$F_g = \frac{G M m}{r^2} \quad M = m$$

$$\therefore F_g = \frac{G m^2}{r^2}$$

$$m = \sqrt{\frac{F_g r^2}{G}} = \sqrt{\frac{(2.30 \times 10^{-8})(10.0)^2}{6.67 \times 10^{-11}}}$$

$$= \underline{186 \text{ kg}}$$

4) Calculate the gravitational force on a 6.50×10^4 kg that is 4.15×10^6 m above the surface of the Earth?



$$r = 1.053 \times 10^7 \text{ m}$$

$$F_g = \frac{G M m}{r^2} = \frac{(6.67 \times 10^{-11})(5.98 \times 10^{24})(6.50 \times 10^4)}{(1.053 \times 10^7)^2}$$

$$= \underline{2540 \text{ N}}$$

5) The gravitational force between two objects that are 2.1×10^{-3} m apart is 3.2×10^{-6} N. If the mass of one object is 55 kg what is the mass of the other object?

$$F_g = \frac{G M m}{r^2}$$

$$M = \frac{F_g r^2}{G m} = \frac{(3.2 \times 10^{-6})(2.1 \times 10^{-3})^2}{(6.67 \times 10^{-11})(55)}$$

$$= \underline{38 \text{ kg}}$$

6) If two objects, each with a mass of 2.0×10^3 kg, produce a gravitational force between them of 3.7×10^{-6} N. What is the distance between them?

$$F_g = \frac{G M m}{r^2}$$

$$r = \sqrt{\frac{G M m}{F_g}}$$

$$= \sqrt{\frac{(6.67 \times 10^{-11})(2.0 \times 10^3)(2.0 \times 10^3)}{3.7 \times 10^{-6}}}$$

$$= \underline{0.85 \text{ m}}$$

Universal Gravitation Problems Worksheet

Pratap Kumar



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theories the author considers a problem of gravitation with causally consecutive point of view By logic of researches of known facts and existing theories of this direction he comes to conclusion about unknown fundamental property of a matter causing the gravitational phenomena The authors explanation is not difficult to mastering both with causal and quantitative points of view However it demands deep changes in accepted beliefs and approaches On the basis of the offered causal essence of gravitation the author deduces the law of universal gravitation of Newton he defines the theoretical value of a gravitational constant and calculates known gravitational effects with the use of simple mathematical reasoning only The subsequent results of the offered concept are corresponding with the checked up results of Einsteins general theory of relativity GTR However for planned new experiments on detection of gravitational waves and gravymagnetic effect negative results are predicted The mentioned circumstance may allow judging about value of the offered explanation in a not far future Despite of complexities of the studied problem the book is narrated in a free polemical style stipulated for a wide range of readers The picture used on the cover is the Galaxy Andromeda M 31 from site www.ASTROLAB.ru Refer to www.physicsandlogic.com

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