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Grades Communication

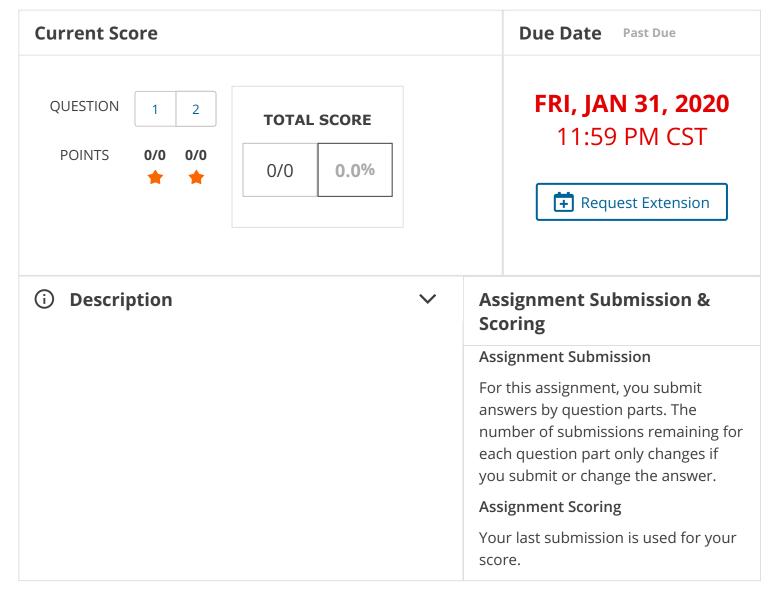
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← Physics 2401, section 002, Spring 2020

Homework Problem Set 01 (Practice) (Homework)

Hung-Ming
Tsai
Texas Tech
University



The due date for this assignment has passed.

Your work can be viewed below, but no changes can be made.

Important! Before you view the answer key, decide whether or not you plan to request an extension. Your Instructor may not grant you an extension if you have viewed the answer key. Automatic extensions are not granted if you have viewed the answer key.



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1. 0/0 points Previous Answers SerPSE10 22.3.OP.002.



The protons in a nucleus are approximately $2 - 10^{-15}$ m apart. Consider the case where the protons are a distance $d = 1.94 - 10^{-15}$ m apart. Calculate the magnitude of the electric force (in N) between two protons at this distance.



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2. 0/0 points Previous Answers SerPSE10 22.3.OP.003.

My Notes Ask Your Teacher

Two charged particles, q_1 and q_2 , are located on the x-axis, with q_1 at the origin and q_2 initially at $x_1 = 12.1$ mm. In this configuration, q_1 exerts a repulsive force of 2.62 μ N on q_2 . Particle q_2 is then moved to $x_2 = 18.4$ mm. What is the force (magnitude and direction) that q_2 exerts on q_1 at this new location? (Give the magnitude in μ N.)

magnitude $1.13 \checkmark \mu N$ direction $-\hat{\mathbf{i}} \checkmark$

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