CENGAGE | WEBASSIGN

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Homework Problem Set 01 (Practice) (Homework)

Current Score

QUESTION	1	2
POINTS	0/0	0/0

TOTAL SCORE

0/0	0.0%

Due Date Past Due

FRI, JAN 31, 2020
11:59 PM CST

Request Extension

Description

Assignment Submission & Scoring

Assignment Submission

For this assignment, you submit answers by question parts. The number of submissions remaining for each question part only changes if you submit or change the answer.

Assignment Scoring

Your last submission is used for your score.

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.

Request Extension | View Key

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

My Notes Ask Your Teacher

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.

61.2 ✓ N

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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 μN 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 μN.)

magnitude 1.13 ✓ μN

direction $-\hat{i}$ ✓

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