

CLPhys1 23.P.039. (380356)

Test / Preview

Code

Previewer Tools

[Show New Randomization](#)[Open in Editor](#)[Print](#) Show: [All](#), [None](#) ☐ Key ☐ Solution ☐ Help/Hints☐ Mark ☐ Answer Format Tips

Charged Cloud A charged cloud system produces an electric field in the air near the Earth's surface. A particle of charge -2.8×10^{-9} C is acted on by a downward electrostatic force of 3.0×10^{-6} N when placed in this field.

(a) What is the magnitude of the electric field?

 N/C

(b) What are the magnitude and direction of the electrostatic force exerted on a proton placed in this field?

 ---Select---

(c) What is the gravitational force on the proton?

 N

(d) What is the ratio of the magnitude of the electrostatic force to the magnitude of the gravitational force in this case?

Question Details

Name (QID): CLPhys1 23.P.039. (380356)

Usable/Draft: Usable

Locked: Yes

Mode: Numerical, Multiple-Choice, Numerical

Author: WebAssign Staff (support@webassign.net)

Permission: Copyright

Textbook

Cummings, Laws, Redish, and Cooney, "Understanding Physics", ed.1

Chapter

23

Last Saved: May 8, 2008 03:23 PM EDT