BSSE 23058 Section A.

Assignment # 5. Applied. Physics.

1. Differentiate between conservative and non-conservative fields in terms of mechanics / electrostatics live at least five enamples In the content of mechanics and electrostatics, conservative que some conservative fields reperts how the world done on an object depends on the path taken. ⇒ Conservative Fields: 1. I favitational force: It is a conservative field. The work done in lifting an object from one point to another is the same, segardless of the path taken.

2. Electrostatic force: The electric field in electrostatics is conservative. The workdone in moving a charged possible from one point to another is independent of the path taken.

3. Spring force: The force entitled by a spring is conservative. The work done in compressing a entending a spring depends only on the initial and final positions. On the initial and final positions.

4. Magnetic Force: In some situations, the magnetic field can te conservative => Non-conservative Fields: 4. Frictional force: Friction is a non-conservative force. The would done against friction depends on the specific path taken

work done against friction depends on the specific path taken

5. (dir Resistance: The force due to air resistance is

non-conservative force. The work done against air secistance.

dipends on the path and speed of the Object.

6. Thision in a moving Rope: The tension in a moving vope is a non conservative force. The work done in pulling an Object with a some depends. On the path the rope takes.



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