**ACKNOWLEDGMENTS**

Amirhossein Davoudi, Jessica Rood, Stephanie V. Chasteen and Steven J. Pollock. Translated a paper from a non-English language.

**REFERENCES**

Cree Brown, Philadelphia University, Philadelphia, PA 19104.

**NEW CATEGORIES OF RESPONSES**

- **Regular**
  - (A) clear and complete, correct answer with the correct answer
  - (B) clear and complete, correct answer with an incorrect answer
  - (C) correct answer with no explanation
  - (D) full credit with no answer
  - (E) full credit with a wrong answer

**DATA ANALYSIS (USING NEW CATEGORIES OF RESPONSES)**

**EQUIPMENT**

1. A charged insulating solid sphere of radius R with a uniform charge density that depends on the distance from the origin, \( r = 100a \).
2. A charged insulating solid sphere of radius R with a uniform charged in the center of a conducting sphere, centered on the origin, with a non-
3. A charged insulating solid sphere of radius R with a uniform charge density that depends on the distance from the origin, \( r = 100a \).
4. A charged insulating solid sphere of radius R with a uniform charge density that depends on the distance from the origin, \( r = 100a \).

**EXPLANATION**

1. The rubric, which gives more credit for terminology, emphasizes terminology.
2. The rubric in its current form does not provide in-

**CONCLUSIONS**

1. The rubric is currently being used to grade the exam.
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