arXiv.org > physics > arXiv:1107.3885

Search or Article-id

(Help | Advan

All papers

## Physics > Classical Physics

# Analogy of the grounded conducting sphere image problem with mirror optics

### Kolahal Bhattacharya

(Submitted on 20 Jul 2011)

We show that in the grounded conducting sphere image problem, all the necessary information about the image charge can be found from a mirror equation and a magnification formula. Then, we propose a method to solve the image problem for an extended charge distribution near a grounded conducting sphere.

Comments: 9 pages, 4 figures

Classical Physics (physics.class-ph); Optics (physics.optics) Subjects:

Journal reference: 2011 Eur. J. Phys. 32 1163 DOI: 10.1088/0143-0807/32/5/004

Cite as: arXiv:1107.3885 [physics.class-ph]

(or arXiv:1107.3885v1 [physics.class-ph] for this version)

#### **Submission history**

From: Kolahal Bhattacharya [view email] [v1] Wed, 20 Jul 2011 03:12:16 GMT (112kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.

### **Download:**

- PDF
- PostScript
- Other formats

Current browse cont physics.class-ph < prev | next >

new | recent | 1107

Change to browse b

physics physics.optics

References & Citation

NASA ADS

Bookmark(what is this?)







