

# **Reprint of Papers on Electrostatics and Magnetism**

William Thomson



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#### Reprint of Papers on Electrostatics and Magnetism William Thomson

This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1872 edition. Excerpt: ...with the earth. When the difference of potentials between two conductors is to be tested, one of these is connected with the brass case of the instrument, and the other with the chief electrode, the umbrella being kept up. If both of these conductors must be kept insulated from the earth, the brass case of the electrometer must be put on an insulating stand, and the micrometer screw turned by an insulating handle. 373. A lead cup (c e, fig. 8), supported by metal pillars from the roof and carrying pieces of pumicestone, held in their place by India-rubber bands, completes the instrument. The inner surface of the glass must be clean, and particles of dust, minute shreds or fibres, etc., removed as carefully as possible, especially from the lower surface of the upper attracting-plate, and the upper surface of the guard-plate and aluminium square facing it from below. The pumice is prepared by moistening it with a few drops of strong pure sulphuric acid. Ordinary sulphuric acid of commerce should be boiled with sulphate of ammonia to free it from volatile acid vapours, and to strengthen it sufficiently by removing water if the acid be not of the strongest. There should not be so much acid applied to the pumice as to make it have the appearance of being moist, but there must be enough to maintain a sufficiently dry atmosphere within the instrument for very perfect insulation of the Leyden jar, which I find does not in general lose more of its charge than five per cent. per week, when the pumice is properly impregnated with acid. Thus there is no tendency of the liquid to drop out of the pumice; and the pumice being properly secured by the India-rubber bands, the instrument may be thrown about with any force, short of that which might break...

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