

**A TREATISE, IN POPULAR LANGUAGE, ON
THE SOLAR ILLUMINATION OF THE SOLAR
SYSTEM, THE LAW AND THEORY OF THE
INVERSE SQUARES; BEING AN ANALYSIS
OF THE TWO RECEIVED LAWS RELATING TO
THE DIMINUTION OF LIGHT BY DISTANCE**

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A Treatise, in Popular Language, on the Solar Illumination of the Solar System, the Law and Theory of the Inverse Squares; Being an Analysis of the Two Received Laws Relating to the Diminution of Light by Distance by Collins Simon

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COLLINS SIMON

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THE SOLAR ILLUMINATION
OF THE
SOLAR SYSTEM.

What shall you think, my dear Kepler, of the leading men of science here, when I tell you that, like the deaf adder that stoppeth her ears, they will not look at the Moon and Planets through my telescope, although I have had it offered to them for the purpose a thousand times? They will not even look at the telescope itself. As the adder closes her ears so they close their eyes, to avoid the recognition of what is really going on.

GALILEO'S LETTER TO KEPLER, FROM PADUA,
August, 19, 1610.

[*** Quid dices [mi Keplere] de primariis hujus gymnasii philosophis qui aspersione pertinaciâ repleti, nunquam, licet me ultro, deditâ operâ, millicies offerente, nec Planetas, nec Lunam, nec perspicillam videre voluerunt?—Verum ut ille aures, sic isti oculos contra veritatis lucem obturârant.]

A TREATISE,
IN POPULAR LANGUAGE, ON
THE SOLAR ILLUMINATION
OF THE
SOLAR SYSTEM,
OR,
THE LAW AND THEORY OF THE INVERSE SQUARES;
BEING
AN ANALYSIS OF THE TWO RECEIVED LAWS
RELATING TO
THE DIMINUTION OF LIGHT BY DISTANCE,

WHEREIN IT IS SHOWN THAT, ACCORDING TO UNDISPUTED FACTS OF
NATURE AND OF SCIENCE, THE SOLAR ILLUMINATION IS
EQUAL THROUGHOUT THE WHOLE SYSTEM, AND
THE LAW OF THE INVERSE SQUARES FOR
LIGHT, PHYSICALLY IMPOSSIBLE.

TO WHICH IS ADDED

THE PROSPECTUS FOR A PRIZE OF FIFTY GUINEAS OFFERED FOR DISPROOF
OF THE SCIENTIFIC FACTS HERE FOR THE FIRST TIME INDICATED.

ALSO

AN APPENDIX OF EXTRACTS FROM THE WRITINGS OF PROFESSIONAL MEN.

By COLLYNS SIMON, Hon. LL.D., Edin.,

AUTHOR OF "SCIENTIFIC CERTAINIES IN PLANETARY LIFE, OR NEPTUNE'S LIGHT AS
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WORLD," "THE LOCALITIES CONNECTED WITH THE MISSION
AND MARTYRDOM OF ST. PETER," &c., &c.

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of supposing Light diminished in this Theory by distance from the Source. How Light is supposed to be diminished through enlargement of the area illuminated, shown by the concentric spheres and the parallel Screens. Precise definition of the Law and Theory. Distinction important between the geometrical Law and the alleged physical one, the one Law being the inverse or contrary of the other. Enlargement of the Area is, in this Theory of the Inverse Squares, a <i>sine qua non</i> of diminution. The seven propositions of which the Theory consists. Application of the Theory and its Law to the solar system; (1) with regard to the size and position of the planets; and (2) with regard to the varieties of relative area resulting from varieties of relative distance - - - - -	16
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