

**NOTES OF A COURSE OF A  
COURSE OF NINETEEN LECTURES  
ON NATURAL PHILOSOPHY  
DELIVERED AT GUY'S HOSPITAL  
DURING THE SESSION 1872-73**

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Notes of a Course of a Course of Nineteen Lectures on Natural Philosophy Delivered at Guy's Hospital During the Session 1872-73 by G. F. Rodwell

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OF A COURSE OF NINETEEN LECTURES ON  
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THE SESSION 1872-73

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1873

*Veritas autem non a felicitate temporis aliqujus, quæ res varia est; sed a lumine Nature et experientia, quod eternum est, petenda est.—BACON, Novum Organum.*

## P R E F A C E.

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THE following Notes were written for the use of the Students who attended my Lectures at Guy's Hospital during the last Session. It was afterwards thought that they might be found useful elsewhere, hence their appearance in the present form. The subject-matter has been somewhat enlarged, and the order in which the subjects occurred has been changed, as it was considered advisable to commence the Course with one of the more experimental sciences ; but in the main, the Notes are precisely the same as those with which we worked. The omission of Acoustics, and the comparatively slight treatment which the subject of Light has received, is to be accounted for by the fact that the Lectures had special reference to the requirements of the " Preliminary Scientific " (M.B.) examination of the University of London. It is hoped that the various definitions—incomplete as some of them must necessarily be—may prove serviceable in directing the study of those who wish to acquire a knowledge of some of the principal laws of Nature ; while

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the experimental hints may perhaps induce the reader to prepare, and try for himself, various experiments, of which only a faint idea can be obtained from simple description. Those who may desire to use the Notes for lecture purposes will recognise at once that the main difficulty has been to condense the matter sufficiently; hence, by enlarging individual notes, or by fully illustrating those given, they can readily increase the number of lectures to any extent they please; and I shall be glad if they find this framework useful for the erection of their greater structures.

G. F. RODWELL.

MARLBOROUGH, *March 31st, 1873.*

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*Partitio enim, quæ sit sola cogitatione, nihil mutat; sed  
omnis materia variatio, sive omnium ejus formarum diversitas,  
pendet à motu.—DESCARTES, Principia, pars 2.*