AN ELEMENTARY COURSE OF HYDROSTATICS AND SOUND, DESIGNED FOR THE USE OF SCHOOLS, COLLEGES, AND CANDIDATES FOR UNIVERSITY AND OTHER EXAMINATIONS

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An Elementary Course of Hydrostatics and Sound, Designed for the Use of Schools, Colleges, and Candidates for University and Other Examinations by Richard Wormell

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RICHARD WORMELL

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BY

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PREFACE.

THE study of the sciences of Mechanics and Hydrostatics is important both on account of the positive knowledge which may be acquired on the subjects belonging to these sciences, and also on account of the effects of the study as a discipline of the mind and an illustration of philosophical principles.

They have been termed *mixed* sciences, for they must be treated in part according to the inductive methods of physical science, and in part according to a rigorous system of mathematical reasoning.

In the present work on Hydrostatics, the two methods are taken separately. Part I., or the Inductive Part, treats chiefly of those principles of the science which are derived directly and professedly from experiment and observation.

In Part II., or the Deductive Part, other principles are deduced from the laws established in the

first part, from the definitions of terms, and from axioms or self-evident principles, by the same rigorous line of demonstration, and under the same logical laws, as the reasoning of Geometry.

Part III is devoted to Acoustics.

The whole contains all that is required on these subjects for the B.A. and B.Sc. degrees of the University of London.

The Metric System of Weights and Measures being the only system which furnishes an *exact* relation between the units of weight and units of capacity, has been extensively, though for obvious reasons not exclusively, used throughout the work.

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