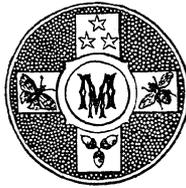


A  
A

A TREATISE  
ON  
SOLID GEOMETRY.

A



A TREATISE  
ON  
SOLID GEOMETRY

BY THE REV.

PERCIVAL FROST, M.A.

LATE FELLOW OF ST JOHN'S COLLEGE,  
MATHEMATICAL LECTURER OF KING'S COLLEGE,

AND THE REV.

JOSEPH WOLSTENHOLME, M.A.

FELLOW AND ASSISTANT TUTOR OF CHRIST'S COLLEGE.

Cambridge and London:  
MACMILLAN AND CO.

1863

[The Right of Translation is reserved.]

Cambridge:

PRINTED BY C. J. CLAY, M.A.  
AT THE UNIVERSITY PRESS.

## P R E F A C E .

THE Authors of the following Treatise have endeavoured to present before students as comprehensive a view of the subject, as certain limitations have allowed them to do. The necessity of these limitations has developed itself in the course of preparing the work during a period of four years. The study of innumerable papers, by the most celebrated mathematicians of all countries, has convinced the authors that the subject is almost inexhaustible, and that, to have treated all parts of it with anything approaching to the fulness with which they have treated the first portion, would have swelled their work in a fearful proportion to what it has already attained.

Intending, as they have done, to make the subject accessible, at least in the earlier portions, to all classes of students, they have endeavoured to explain completely all the processes which are most useful in dealing with ordinary theorems and problems connected with the straight line, and plane, and particular