

AN ELEMENTARY TREATISE
ON THE
DYNAMICS OF A PARTICLE
AND OF RIGID BODIES

BY THE SAME AUTHOR

ELEMENTS OF HYDROSTATICS

ELEMENTS OF TRIGONOMETRY

ELEMENTARY TREATISE ON DYNAMICS OF A PARTICLE AND OF RIGID
BODIES SOLUTIONS

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ELEMENTS OF STATICS (*separately*)ELEMENTS OF DYNAMICS (*separately*)

AN ELEMENTARY TREATISE
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DYNAMICS OF A PARTICLE
AND OF RIGID BODIES

BY
S. L. LONEY

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PREFACE

In the following work I have tried to write an elementary class-book on those parts of Dynamics of a Particle and Rigid Dynamics which are usually read by Students attending a course of lectures in Applied Mathematics for a Science or Engineering Degree, and by Junior Students for Mathematical Honours. Within the limits with which it professes to deal, I hope it will be found to be fairly complete.

I assume that the Student has previously read some such course as is included in my Elementary Dynamics. I also assume that he possesses a fair working knowledge of Differential and Integral Calculus; the Differential Equations, with which he will meet, are solved in the Text, and in an Appendix he will find a summary of the methods of solution of such equations.

In Rigid Dynamics I have chiefly confined myself to two-dimensional motion, and I have omitted all reference to moving axes.

I have included in the book a large number of Examples, mostly collected from University and College Examination Papers; I have verified every question, and hope that there will not be found a large number of serious errors.

Solutions of the Examples have now been published.

S. L. LONEY

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