ELEMENTARY APPLIED MECHANICS

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Elementary Applied Mechanics by Thomas Alexander

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THOMAS ALEXANDER

ELEMENTARY APPLIED MECHANICS

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ELEMENTARY APPLIED MECHANICS.

ELEMENTARY

APPLIED MECHANICS.

BEING

THE SIMPLER AND MORE PRACTICAL CASES OF STRESS AND STRAIN WROUGHT OUT INDIVIDUALLY FROM FIRST PRINCIPLES BY MEANS OF ELEMENTARY MATHEMATICS, ILLUSTRATED BY DIAGRAMS AND GRADUATED EXAMPLES, INTENDED AS AN EASY INTRODUCTION TO THE GENERAL TREATMENT OF THE SUBJECT IN RANKINE'S APPLIED MECHANICS.

BY

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PROFESSOR OF CIVIL ENGINEERING IN THE IMPERIAL COLLEGE OF ENGINEERING AT TOKEI, JAPAN.

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1880.

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In memoriam
L. Stringham

LBC

PART FIRST.

ELASTICITY, RESILIENCE.

PURE STRAIN, SIMPLE AND COMPOUND

THE ELLIPSE OF STRESS.

APPLICATION TO EARTHWORK.

800540

PREFACE.

THIS volume is the first of two on the subject of Internal Stress and Strain which are intended to supply the felt want of a complete and systematic set of exercises. It is based on the late PROFESSOR RANKINE'S treatment of the subject in his *Applied Mechanics* and *Civil Engineering*, and will serve as a companion, or as an introduction, to these volumes.

22nd July, 1879.