ENERGY IN NATURE. BEING, WITH SOME ADDITIONS, THE SUBSTANCE OF A COURSE OF SIX LECTURES UPON THE FORCES OF NATURE AND THEIR MUTUAL RELATIONS, DELIVERED UNDER THE AUSPICES OF THE GILCHRIST EDUCATIONAL TRUST, IN THE AUTUMN OF 1881

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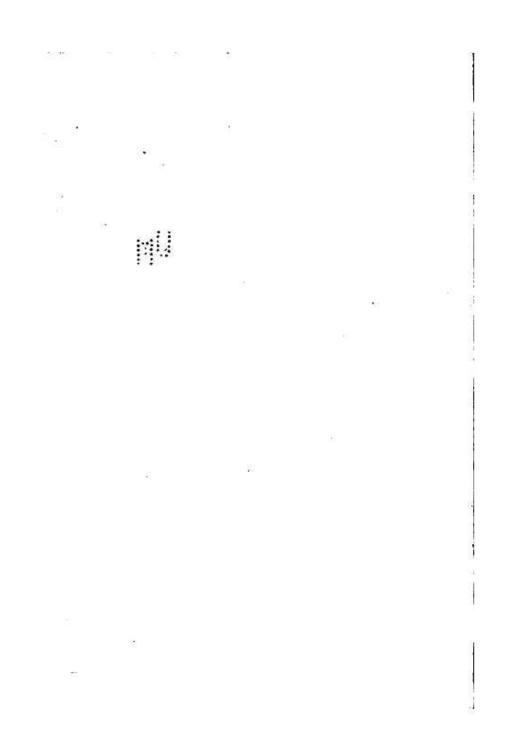
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To my Father,

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WILLIAM B. CARPENTER, C.B., M.D., LL.D., F.R.S., F.O.S., P.L.S., &c. &c.,

WHO HAS DEVOTED MUCH OF THE ENERGY OF A LIFETIME

TO THE SCIENTIFIC EDUCATION OF THE PEOPLE,

3 Dedicate this Tittle Book.

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PREFACE.

THE object of the following pages is to give to those who have had little or no opportunity of studying the subject, some idea of the mutual relations existing between the various so-called "Forces of Nature," expressed in the simplest language, but at the same time, it is hoped, with sufficient scientific accuracy. Whenever it is impossible to avoid the use of technical terms, they will be carefully defined and explained, and the illustrations used will, as far as possible, be matters of common experience. An attempt is made in the earlier pages to lay down clearly the distinction between Force and Energy, and to explain how the language of the older books on the so-called Forces of Nature, the Correlation of Forces, &c., has been of late modified