

**FORCE AND
ENERGY. A THEORY
OF DYNAMICS**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649129003

Force and energy. A theory of dynamics by Grant Allen

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PRINTED BY
SPOTTISWOODE AND CO., NEW-STREET SQUARE
LONDON

Physics
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A THEORY OF DYNAMICS

BY

GRANT ALLEN

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LONDON
LONGMANS, GREEN, AND CO
AND NEW YORK: 15 EAST 16th STREET
1888

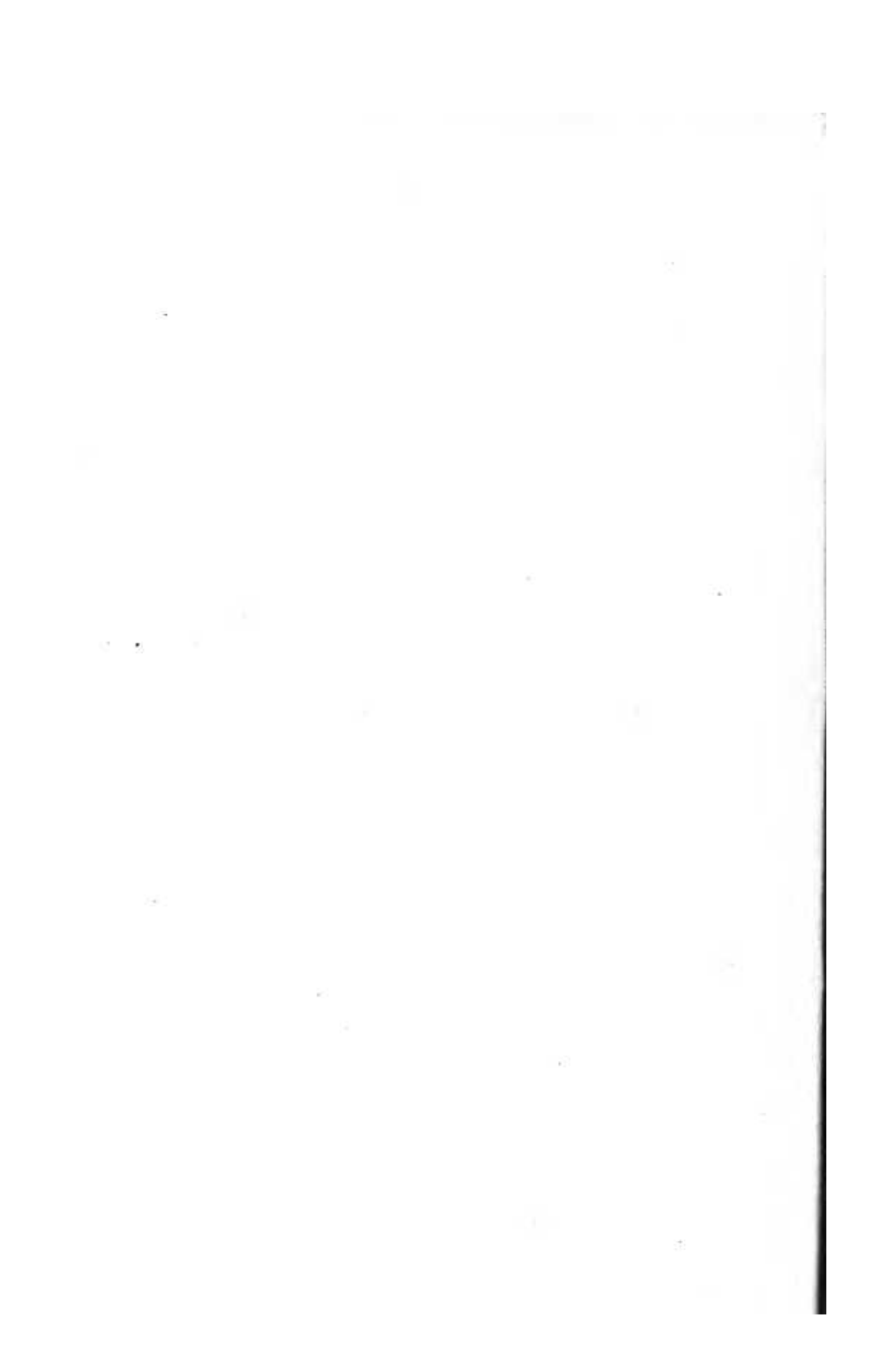
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A P O L O G Y.

It is with the profoundest diffidence that I set forth this book. My best excuse for its publication now may probably be found in the circumstances under which I have been induced at last to rush into print with it. The work has lain by me for nearly double the time prescribed in the familiar Horatian maxim. Some fourteen years ago, when I was head of a Government college in Jamaica, the perusal of certain dynamical treatises of Clerk Maxwell's, Tait's, Balfour Stewart's, and Helmholtz's, suggested to my mind sundry profound difficulties in the current conception of the nature of Energy. Puzzling out these difficulties conscientiously with myself, as best I might, I began at length to see, or think I saw, a way out of them by means of a new theory of my own. This theory, which, right or wrong, gradually grew clear to my mental vision, I embodied in a little twenty-page pamphlet bearing the same title as the present work, and printed privately at Oxford in 1875 for distribu-