

# **THE APPLICATION OF ELECTRIC-MOTORS TO MACHINE-DRIVING**

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The Application of Electric-Motors to Machine-Driving by Andrew Stewart

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**ANDREW STEWART**

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ELECTRIC-MOTORS  
TO MACHINE-DRIVING**



THE APPLICATION  
OF  
**ELECTRIC-MOTORS**  
TO  
MACHINE-DRIVING

BY  
ANDREW STEWART, A.M.I.E.E.

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## PREFACE

TO

### THE THIRD EDITION

The following pages, originally a serial in *Electricity*, have been entirely re-written and brought up to date. The rapid progress in this branch of engineering has rendered this necessary, indeed when the first edition appeared, almost all of the apparatus herein described had not even been designed, and though there were many installations of electric power, these were in ship-building yards and engineering works, where the machinery was scattered and consequently the direct results of electric driving, viz., saving of fuel and distribution losses, were most obvious.

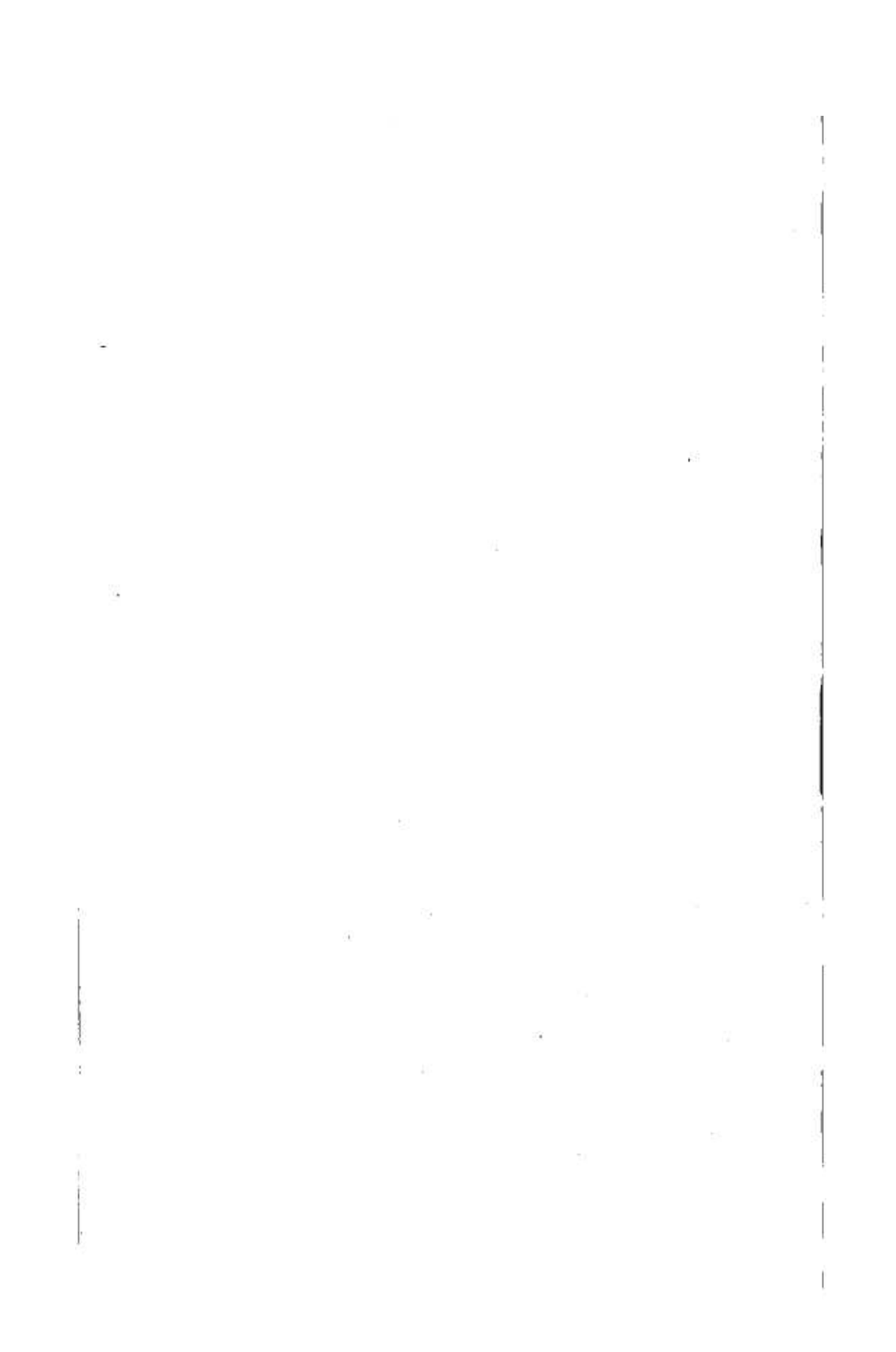
With the extension of the applications of the electric motor came a gradual recognition of the collateral advantages which, in many cases, result in a larger saving than may be obtained from the mere distribution of power as such. It has been the author's aim, not only to illustrate the various applications of electric motors in our leading industries, but to indicate, as far as possible, these indirect advantages, which should invariably receive a large share of attention when electric driving is contemplated, though after many years' experience, the author fears that, in many cases, the economic advantages of electric power have not been completely realised in industrial establishments.

ANDREW STEWART.

London,

October, 1905.

B 2





## CONTENTS

	PAGE
CHAPTER I.—The Electric Motor ... ..	9
“ II.—Motor Starters and Regulators ... ..	17
“ III.—Why Electricity Pays ... ..	29
“ IV.—The Small Gas Engine <i>versus</i> the Electric Motor ... ..	34
“ V.—Electricity in Iron and Steel Works ...	36
“ VI.—Electric Power in Shipbuilding and Engineering Works ... ..	48
“ VII.—The Application of Electric Motors to Printing Machinery ... ..	73
“ VIII.—Electric Power in Textile, Finishing, and Paper Factories ... ..	90
“ IX.—Electric Cranes and Lifts ... ..	104
“ X.—Miscellaneous Applications of Electric Motors ... ..	112
“ XI.—Electricity Tariffs ... ..	122



