

**FARM MOTORS; STEAM  
AND GAS ENGINES,  
HYDRAULIC AND ELECTRIC  
MOTORS, WINDMILLS**

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Farm motors; steam and gas engines, hydraulic and electric motors, windmills by Andrey A. Potter

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**ANDREY A. POTTER**

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# FARM MOTORS

STEAM AND GAS ENGINES  
HYDRAULIC AND ELECTRIC MOTORS  
WINDMILLS

BY

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## PREFACE

In preparing this book it has been the intention to include the fundamental principles governing the construction, working and management of motors which are suitable for farm use. The motors treated include steam engines, gas and oil engines, traction engines, automobiles, water motors, windmills and electric motors.

The method followed in each chapter was to give:

1. the fundamental principles underlying the particular motor,
2. the principal parts of the motor,
3. auxiliary parts,
4. uses to which the particular type of motor is adapted,
5. selection, erection and management of the different machines.

While this book was prepared primarily as a text-book for students in agricultural engineering, the subject matter is so presented that it will be of equal value to farmers and to operators of various kinds of engines and motors. Much practical information is included regarding steam, gas and electricity, and the text is illustrated with over 275 cuts.

Some space is devoted to the more refined methods used in engineering practice for improving the economy of various motors. While many of these methods are not used at the present time in connection with farm motors, it is the opinion of the author that a knowledge of the best engineering practice is not only of considerable educational value, but will lead to the more perfect manipulation of the simple farm motors.

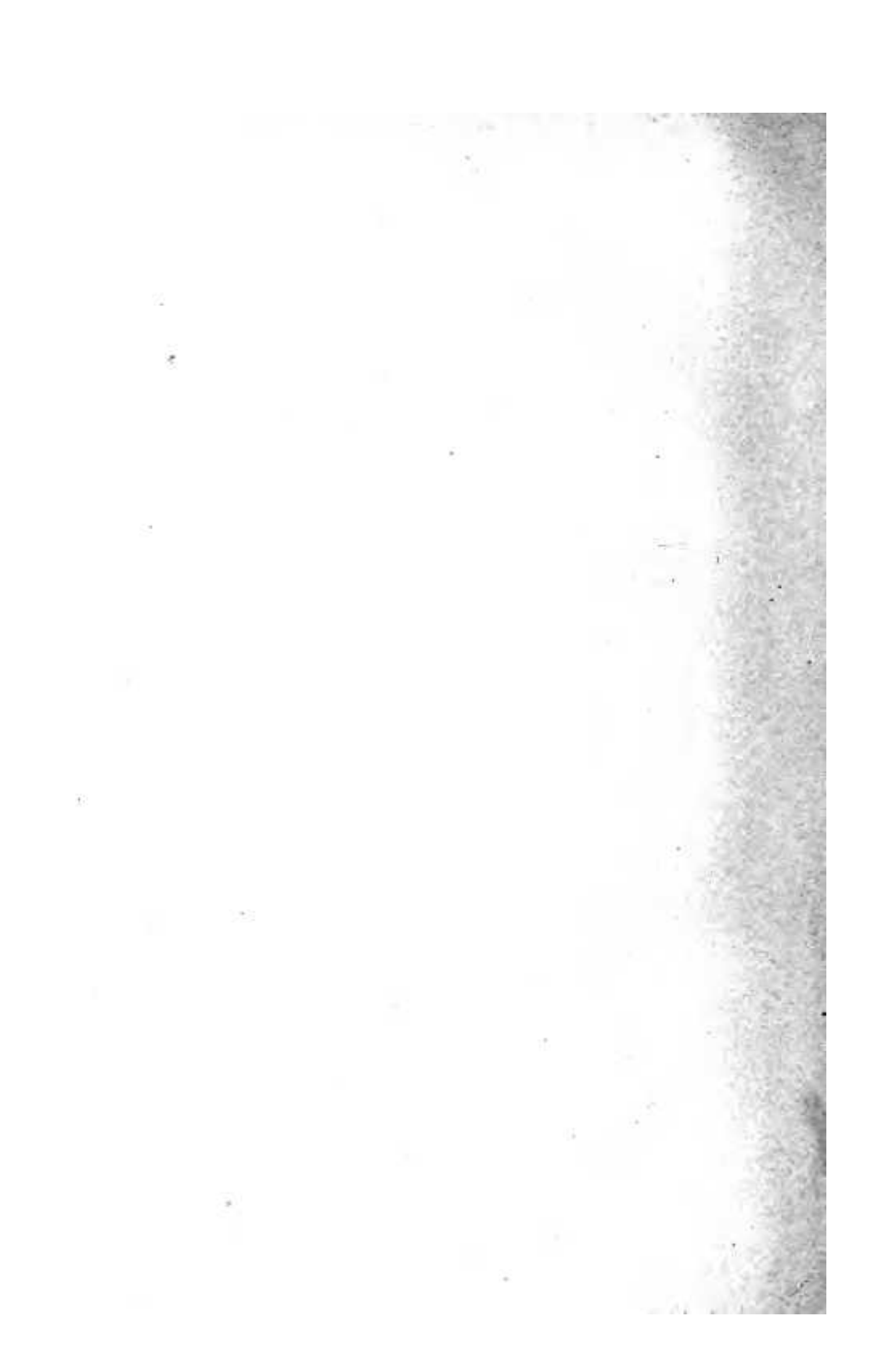
The successful rural engineer of the near future will be the man that applies proven engineering to the machinery and constructions used on the farm.

The author is particularly indebted in the preparation of this book to Professors E. B. McCormick, M. R. Bowerman, R. A. Seaton, and W. W. Carlson, of the Kansas State Agricultural College; to Professors Allen & Bursley of the University of Michigan; and to Mr. S. Yesner of Boston, Mass.

A. A. POTTER.

MANHATTAN, KANSAS,  
November, 1913.





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