

Internal Combustion Engine Manual (Classic Reprint)

F. W. Sterling

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Excerpt from Internal Combustion Engine Manual

In an effort to present briefly and clearly the Internal Combustion Engine problem to the uninitiated,, the author has compiled the data in this volume. It has been the endeavor to eliminate all obsolete practice, to put forth the best modern practice, and to illustrate all points by up-to-date commercial examples.

After close study of the conditions existing in the Internal Combustion Engine course at the U.S. Naval Academy, and after voluminous reading to discover the best general method of presenting the subject, the following was thought the best sequence to follow:

- (a) The subject of fuels is first treated fully, this being the fundamental element that governs design and operation. These fuels follow in a natural sequence which order is preserved when carburetion is taken up in Chapter V.
- (b) The engine proper naturally divides itself into four systems: (1) fuel system,(2) ignition system,(3) cooling system,(4) lubrication system. These are treated in detail in the above order and in Chapter X the four systems assembled are illustrated by modern commercial engines.
- (c)Producer plants being closely allied to gas engines are given a short chapter at the end of the book.

This volume being primarily intended as a text-book for mid-shipmen is necessarily limited in its scope by the time allowed for this course in the Naval Academy curriculum. This necessitates brevity and is responsible for many arbitrary statements contained herein. The endeavor has been to limit these to the closest approximation to the best practices where fuller explanation would extend the book to impossible limits.

The author wishes to thank the various manufacturers for the illustrations used in Chapter X, and the Hill Publishing Company for permission to reproduce some of the figures in Chapter XI.

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