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Unlike some other reproductions of classic texts (1) We have not used OCR(Optical Character Recognition), as this leads to bad quality books with introduced typos. (2) In books where there are images such as portraits, maps, sketches etc We have endeavoured to keep the quality of these images, so they represent accurately the original artefact. Although occasionally there may be certain imperfections with these old texts, we feel they deserve to be made available for future generations to enjoy. Excerpt from *The Theta-Phi Diagram Practically Applied to Steam, Gas, Oil, & Air Engines* In the following pages an attempt has been made to present in as simple and practical a manner as possible, the use of the temperature-entropy diagram and the various methods of drawing it for different heat motors. That the subject presented peculiar difficulties, because of its unfitness for presentation in a popular manner, will readily be granted; but I venture to think that one of the principal reasons for the lack of knowledge upon the subject by draughtsmen, steam students, and others has been the want of an elementary work, not overcrowded with mathematics. Most of the literature upon the subject has presented the mathematical rather than the graphical side of the question, with the result that students have become afraid of tackling what they believe to be an intricate mathematical investigation. Of the utility of the temperature-entropy diagram in representing the various thermal changes which take place in all heat motors there cannot be any doubt. To quote only one authority, Mr. Mark H. Robinson, in the discussion on Mr. Willans' last paper, said: "Up to a certain point the practical man might ignore the present paper, and others like it; but if he aspired to design economical steam engines, he might derive more good from the study of, say, Mr. Macfarlane Gray's $O \emptyset$ diagram than from many portfolios of working drawings." Where authorities have been quoted or made use of, the particulars are given in the text, but I will take this opportunity of expressing my indebtedness to Professor Ewing for his work on "The Steam Engine and other Heat Engines," and his Cantor Lectures on the "Mechanical Production of Cold"; to Professor Boulvin, for his articles in *La Revue de Mecanique*; and to various papers, principally those by the late Mr. P. W. Willans and Mr. Macfarlane Gray, published in the Proceedings of the Institutions of Civil and Mechanical Engineers. I also wish to thank the Council of the latter Institution for permission to reproduce some of the indicator diagrams and figures given in the reports of the Steam Jacket Research Committee. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works. This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as

most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. "[...] In graphical solutions of problems any pair of properties may be used as co-ordinates; if the relation between one pair of properties is given by a curve to one pair of co ordinates, it may, by means of the fundamental equation, be transferred to any other. The pv diagram is the one most commonly used, since it is the one most easily obtained, but for many investigations great advantages are offered by the temperature-entropy diagram. [...]" --

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