

ENGINE TESTS AND BOILER EFFICIENCIES

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Engine tests and boiler efficiencies by J. Buchetti

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J. BUCHETTI

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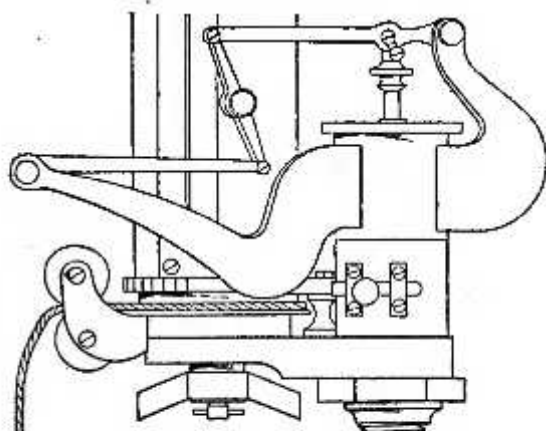
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ENGINE TESTS AND BOILER EFFICIENCIES

BY
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TRANSLATED AND EDITED FROM THE THIRD EDITION
BY ALEXANDER RUSSELL, M.I.E.E., ETC.



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AUTHOR'S PREFACE TO THE THIRD EDITION

IN this edition I have made considerable alterations and additions in almost every chapter of the book, especially in those parts which are concerned with the theory of indicators, the analysis of the working of their various parts, the description of new apparatus, such as indicators, with exterior springs for use with high pressure engines or when the steam has been superheated, explosion recorders for gas, petrol or alcohol engines, apparatus for reducing the scale of the reciprocating motion and the methods of setting it up, apparatus for verifying the flexibility of the springs of the indicators, etc. I have also made some additions to the chapter on brakes. In the second edition I had added a chapter on transmission dynamometers for use in measuring the work transmitted from the prime mover to the machine which it drives. This chapter, however, grew so large, especially that part of it which dealt with the theory of the dynamo-brake, that it appeared better to make this the subject of a separate book.

J. BUCHETTI.

PUBLISHER'S NOTE

IT has been thought that a translation of Mr. Buchetti's standard work "Guide pour l'essai des moteurs" should prove useful to English and American engineers, as it would enable them to compare the best continental practice with that in use in their own countries. With this end in view the measures and tables have in every instance been converted into English units. The formulæ also have been adapted into English measure. It is unnecessary for us to speak of the great value and striking originality of Mr. Buchetti's work.

We are indebted to the Hon. C. A. Parsons, F.R.S., for a brief chapter on testing steam turbines, a subject which is not touched upon by the author.

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