

**TREATISE ON VALVE-GEARS:  
WITH SPECIAL CONSIDERATION  
OF THE LINK-MOTIONS OF  
LOCOMOTIVE ENGINES**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649724789

Treatise on Valve-Gears: With Special Consideration of the Link-Motions of Locomotive Engines by Dr. Gustave Gustav Zeuner & Moritz Müller

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd.  
Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

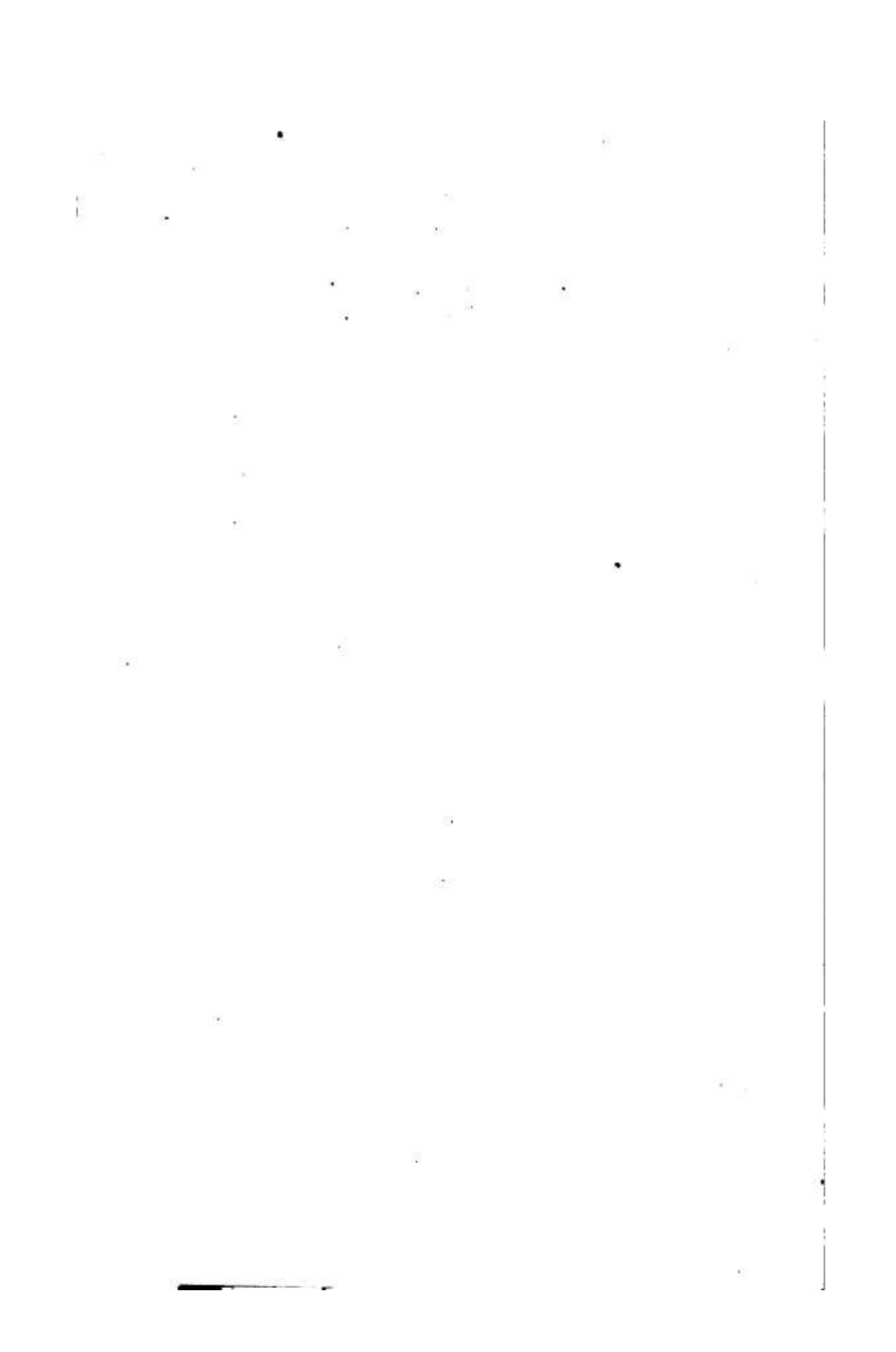
[www.triestepublishing.com](http://www.triestepublishing.com)

**DR. GUSTAVE GUSTAV ZEUNER & MORITZ MÜLLER**

**TREATISE ON VALVE-GEARS:  
WITH SPECIAL CONSIDERATION  
OF THE LINK-MOTIONS OF  
LOCOMOTIVE ENGINES**



**TREATISE ON VALVE-GEARS.**



TREATISE  
ON  
VALVE-GEARS,  
WITH SPECIAL CONSIDERATION  
OF THE  
LINK-MOTIONS OF LOCOMOTIVE ENGINES.

BY DR. GUSTAV ZEUNER,  
PROFESSOR OF APPLIED MECHANICS AT THE CONFEDERATED POLYTECHNIKUM OF ZURICH.

Third Edition, Revised and Enlarged.

TRANSLATED FROM THE GERMAN, WITH THE SPECIAL PERMISSION OF THE AUTHOR,

BY MORITZ MÜLLER.



LONDON:  
E. & F. N. SPON, 48, CHARING CROSS.  
1869.

Fig 2818, 139

JUN 20 1917  
TRANSMITTED TO  
BRITISH WIRELESS SERVICE

155.2



TO

ROBERT SINCLAIR, Esq.,

MEMB. INST. CIV. ENG.,

LATE CHIEF ENGINEER OF THE GREAT EASTERN RAILWAY.

DEAR SIR,

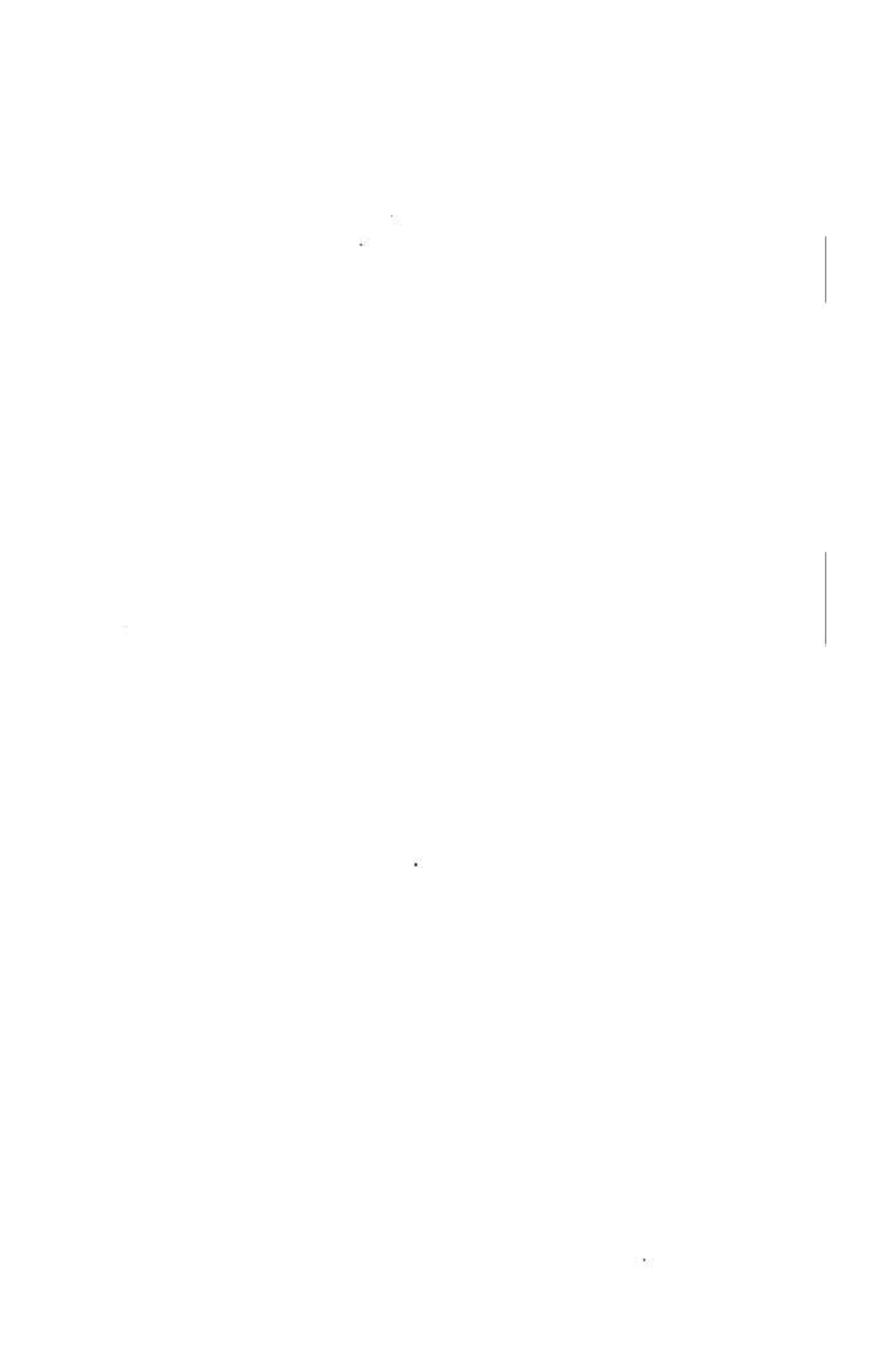
By your kind permission, I dedicate this Translation to you, not only on account of the numerous improvements which you have introduced in the construction of Locomotives, and of the high position held by you as a Railway Engineer, but also because it affords me an opportunity of acknowledging the many instances of kindness which I have experienced at your hands during my residence in this country.

I have the honour to be, dear Sir,

Your obedient servant,

MORITZ MÜLLER.

LONDON, December, 1868.



## TRANSLATOR'S PREFACE.

---

THE great circulation and the general acknowledgment which Professor Zeuner's Circle Diagram obtained in a few years amongst the German Engineers, and also the little knowledge of it which exists in England, have induced me, on the occasion of the publication of the Third Edition of Professor Zeuner's 'Treatise on Valve-Motions' to translate this edition into the English language. I now hand over to the public this Translation (which is as nearly as possible a literal one), and have only to add the desire, that the excellent work by Professor Zeuner may meet in England with the same success as it has in Germany, and that it may be as generally adopted.

MORITZ MÜLLER.

LONDON, *December*, 1868.