

WORM GEARING

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649443321

Worm Gearing by Hugh Kerr Thomas

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HUGH KERR THOMAS

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McGraw-Hill Book Company

Publishers of Books for

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Electric Railway Journal	Coal Age
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1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for transparency and accountability, particularly in financial matters.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for consistent and reliable data sources to ensure the validity of the findings.

3. The third part of the document describes the process of identifying and addressing potential risks and challenges. It notes that proactive risk management is crucial for the success of any project or initiative.

4. The fourth part of the document provides a detailed overview of the results and conclusions drawn from the study. It discusses the key findings and their implications for future research and practice.

5. The fifth part of the document offers recommendations and suggestions for further action. It encourages stakeholders to take the necessary steps to implement the findings and improve their operations.

6. The sixth part of the document concludes with a summary of the overall findings and a final statement on the importance of the research.

7. The seventh part of the document includes a list of references and sources used throughout the study.

8. The eighth part of the document contains a list of appendices and supplementary materials.

9. The ninth part of the document provides a list of contact information for the authors and other relevant parties.

10. The tenth part of the document includes a list of acknowledgments and a final thank you message.



Frontispiece
A Fifteenth Century Worm Gear from an Etching by Albrecht Dürer.

WORM GEARING

BY

HUGH KERR THOMAS

M. I. MECH. E., M. A. S. M. E., M. I. A. E.

SECOND EDITION

REVISED AND ENLARGED

McGRAW-HILL BOOK COMPANY, INC.
239 WEST 39TH STREET. NEW YORK

LONDON: HILL PUBLISHING CO., Ltd.
8 & 8 BOUVERIE ST., E. C.

1916

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MCGRAW-HILL BOOK COMPANY, INC.

THE MAPLE PRESS YORK PA

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PREFACE TO SECOND EDITION

A second edition of this book having been called for, the opportunity is afforded for making corrections of a few typographical errors, which appeared in the first edition. Part of Chapter IX has been rewritten, and three short appendices added to bring the text abreast of the writer's most recent investigations. It is hoped that the value of the book is thereby considerably enhanced.

H. K. T.

PREFACE TO FIRST EDITION

In the following work an attempt has been made, it is believed for the first time, to deal exhaustively with a little understood branch of applied mechanics. A complete analysis of the principles of the design of worm gearing has been made, and, primarily, this has been treated in its application to the rear axles of automobiles. For a number of years this type of gearing has enjoyed considerable popularity in Great Britain, and its wider use is daily becoming more general.

From his experience with his own staff, as well as with many professional acquaintances, the author believes that the book will give information, which, although possibly possessed by a few engineers, has not hitherto been accessible to the designer and draughtsman in anything like a complete form.

An important use for worm gearing is rapidly developing in connection with the reduction gear of steam turbines for marine propulsion; while these are, mechanically speaking, simpler problems, by reason of their greater stability, than the gears of an automobile, precisely the same rules can be applied, and the same thing may be said of gears for driving line shafting from electric motors.