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JOHN F. SANDFORT

Learning thermodynamics is not the drudge and arduous subject that many suppose, but rather a fascinating journey that grew out of a great human need—the production of power from heat. The way of thermodynamics is firmly explained with the historical development of the heat engine, and library research on this subject reveals many interesting and exciting stories and incidents in old books, journals, and transactions. I hope that I have been able to capture in brief some of the drama in this seldom told story.

I am indebted to Dr. H. J. Storer, a friend and former colleague at Iowa State University, for many effective ideas and ways of presenting this subject. Dr. Storer is not only an author but also a highly imaginative and creative thermodynamicist, as many of his fine and excellent articles attest.

In addition to Dr. Storer, I am indebted to A. E. Thomas, former Chief Engineer, University of Illinois, for his helpful comments and suggestions. I am also indebted to the following for their help and assistance: G. A. B. GARDEN CITY, NEW YORK 11530  
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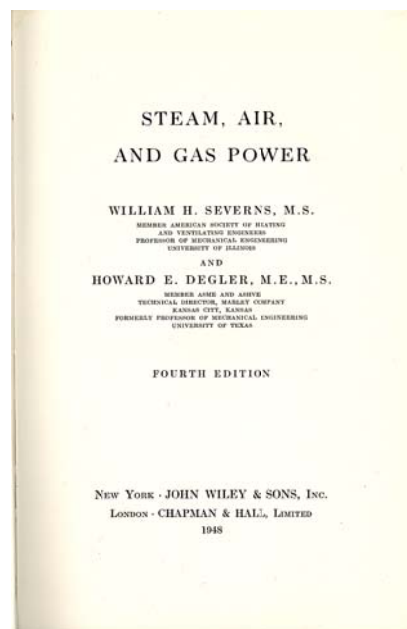
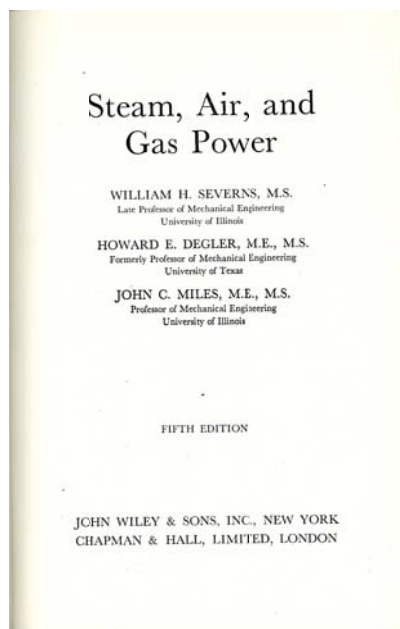
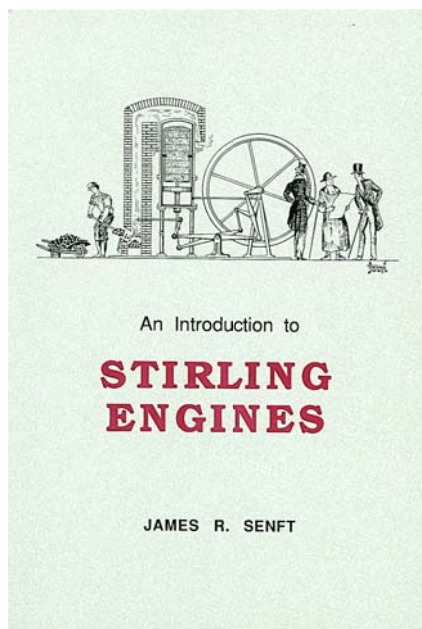
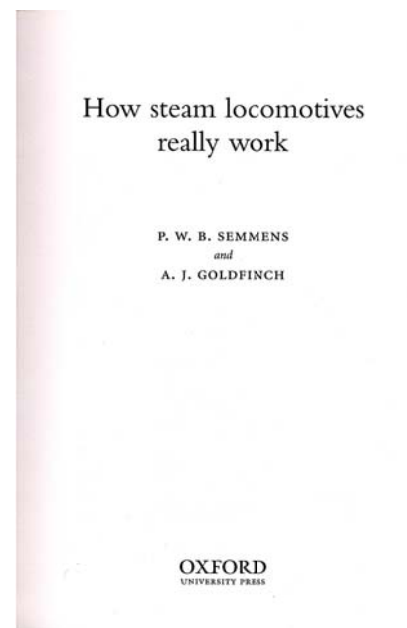
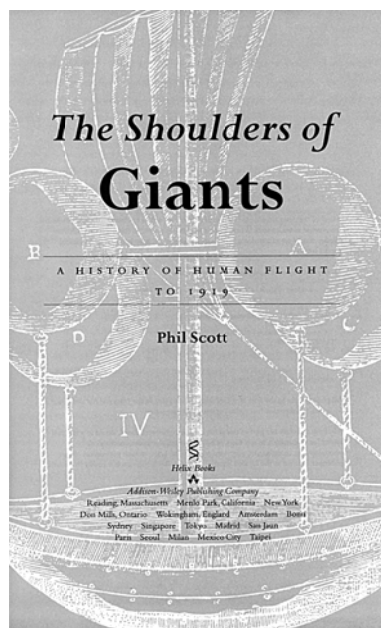
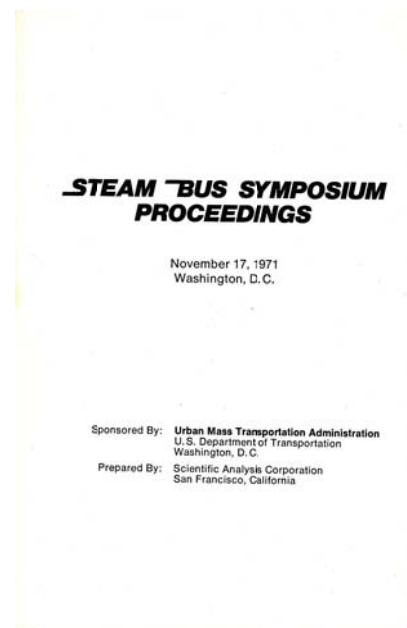
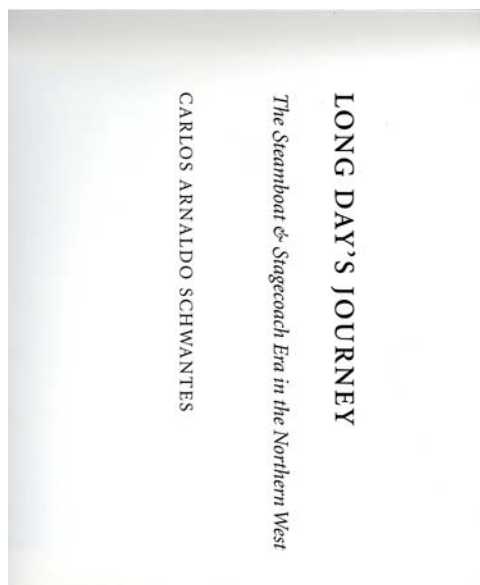
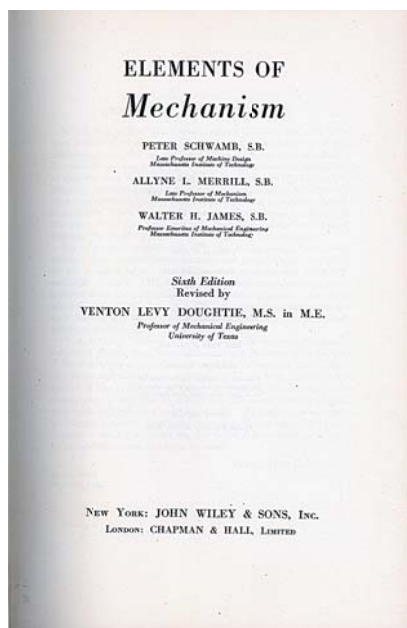
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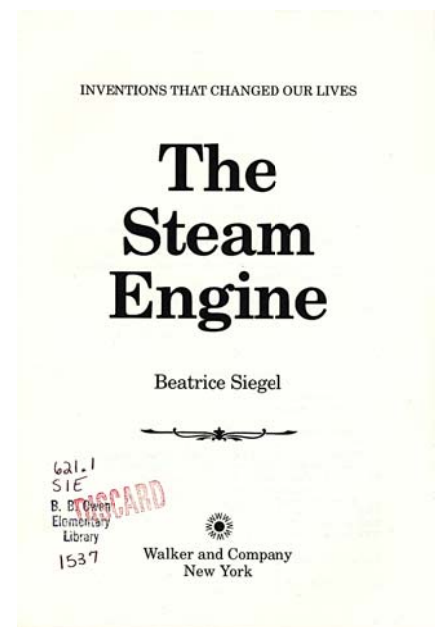
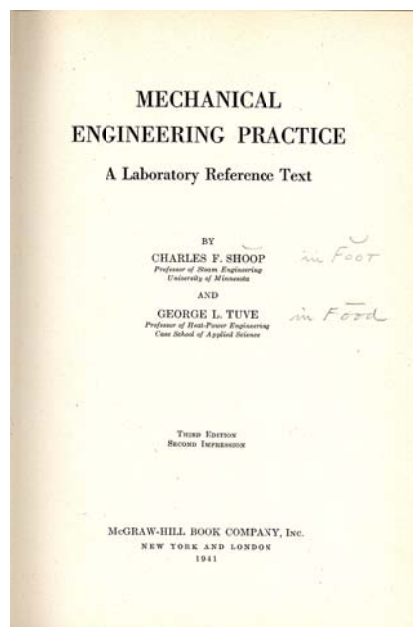
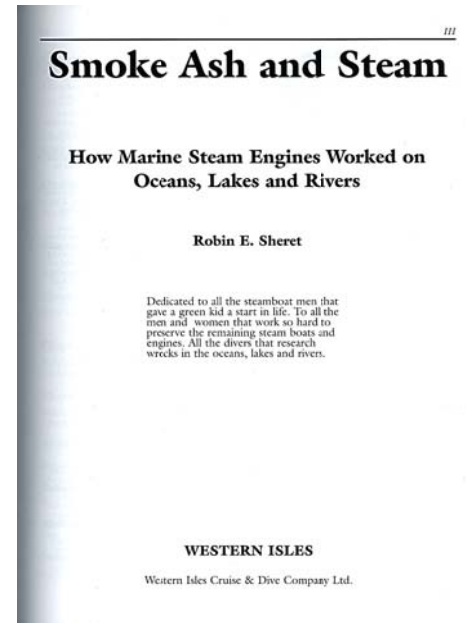
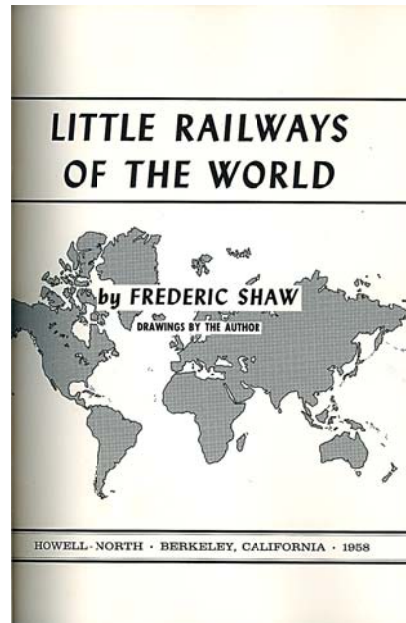
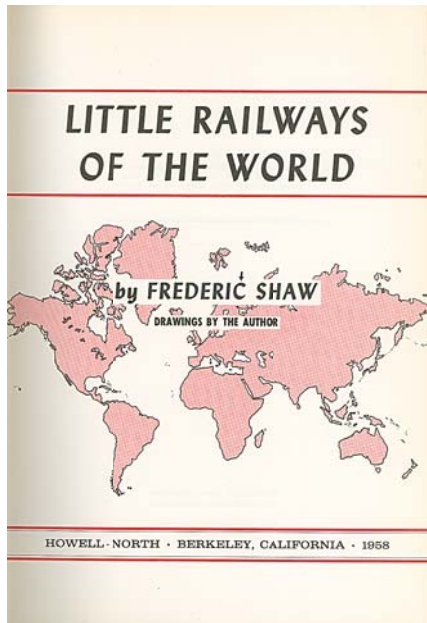
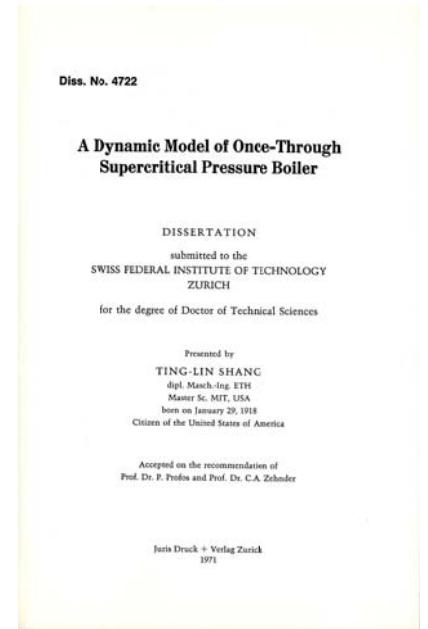
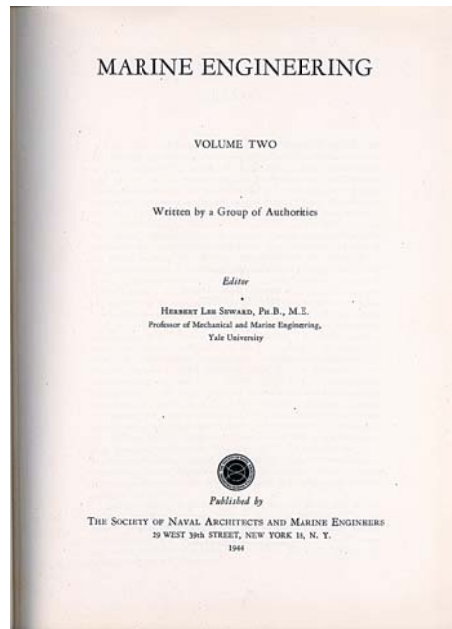
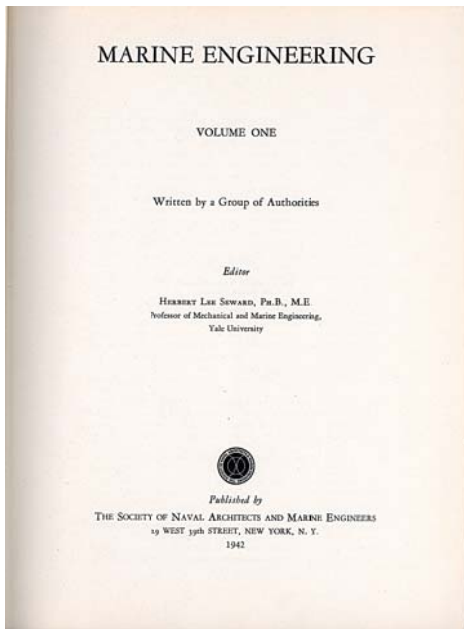
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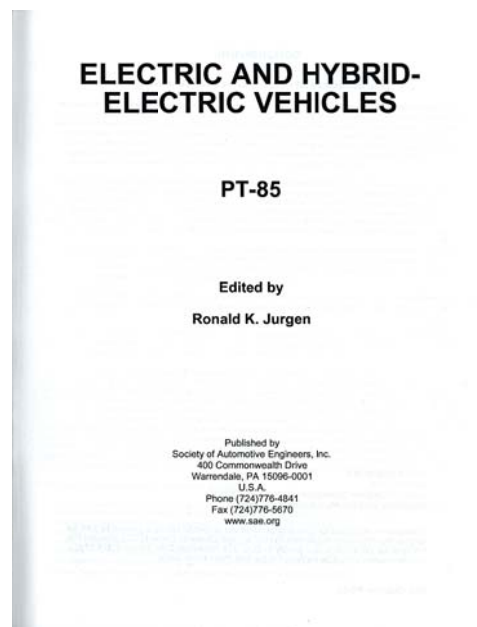
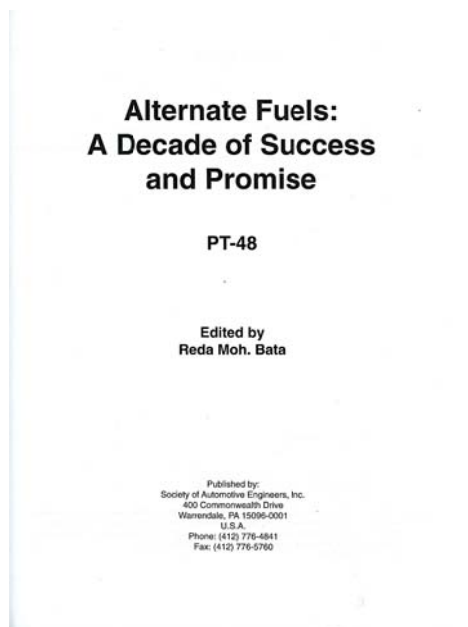
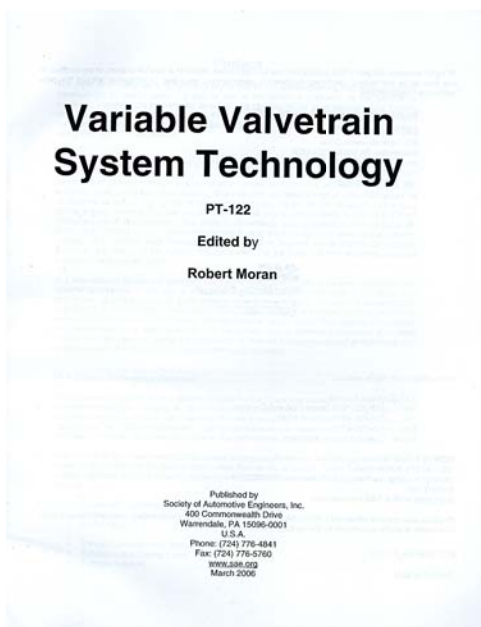
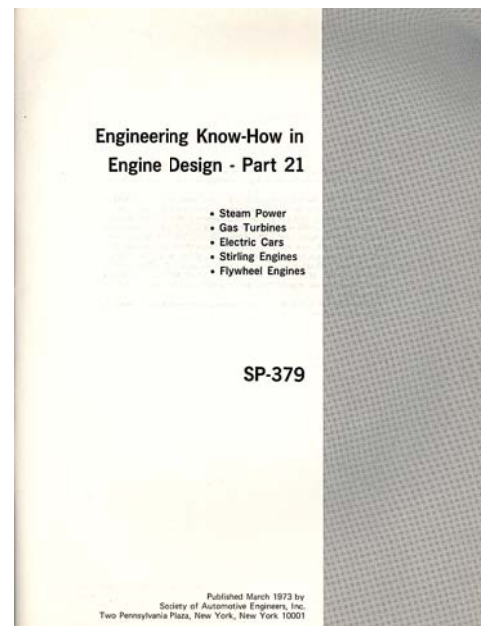
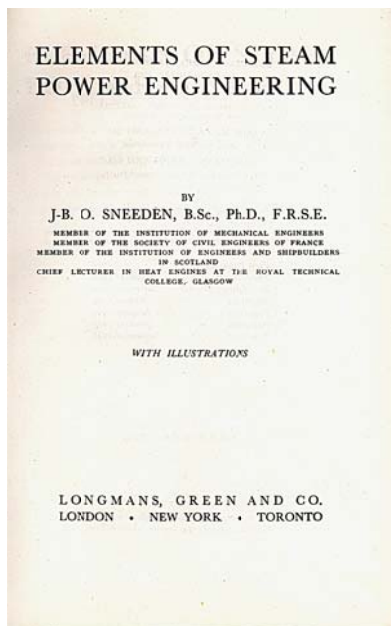
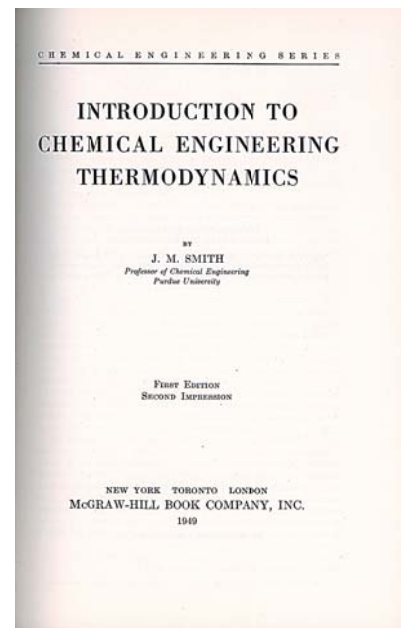
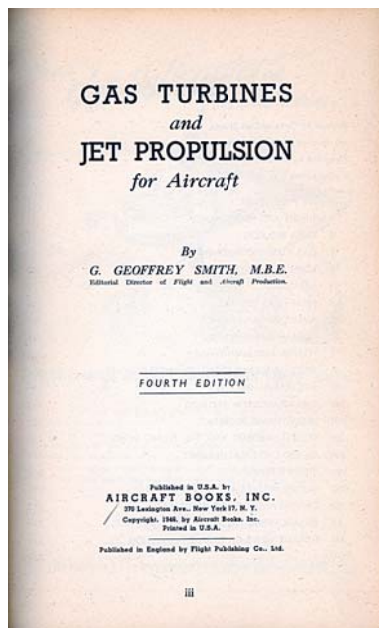
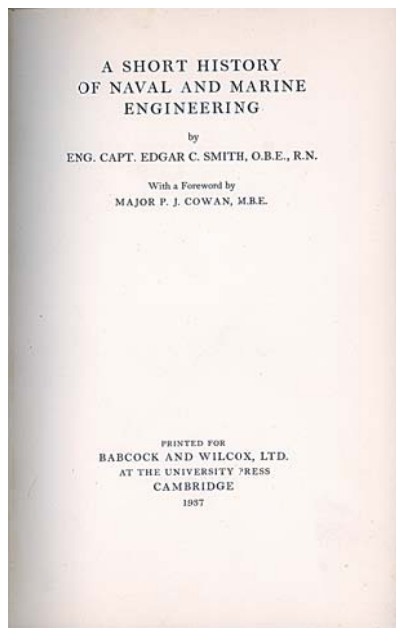
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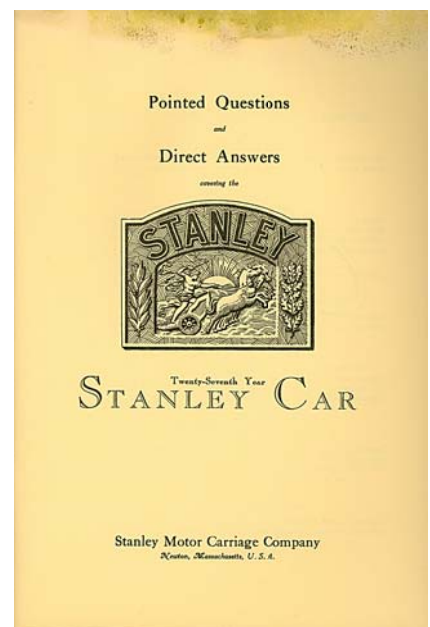
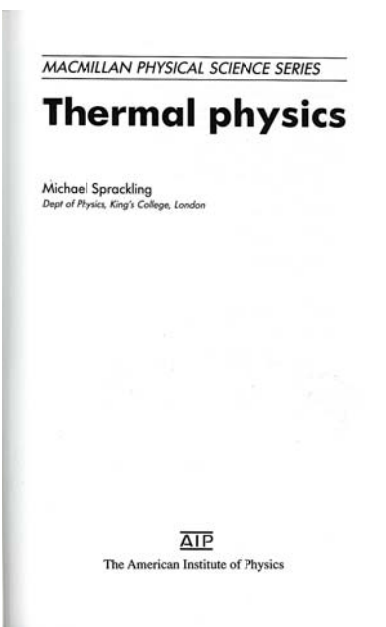
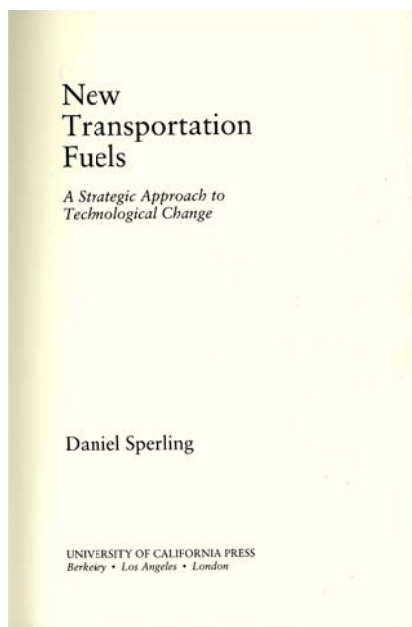
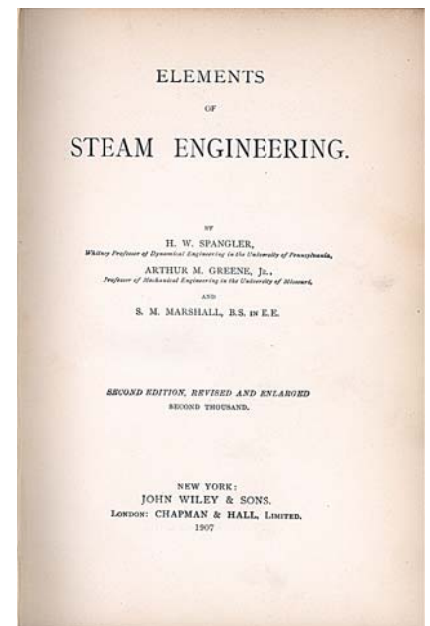
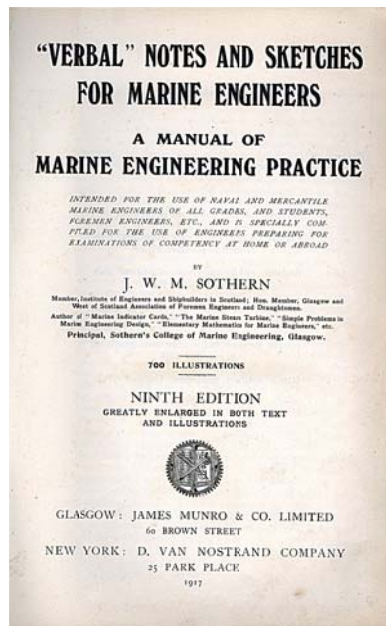
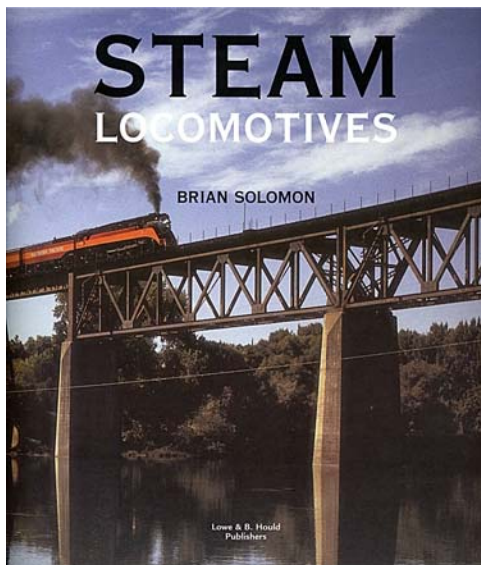
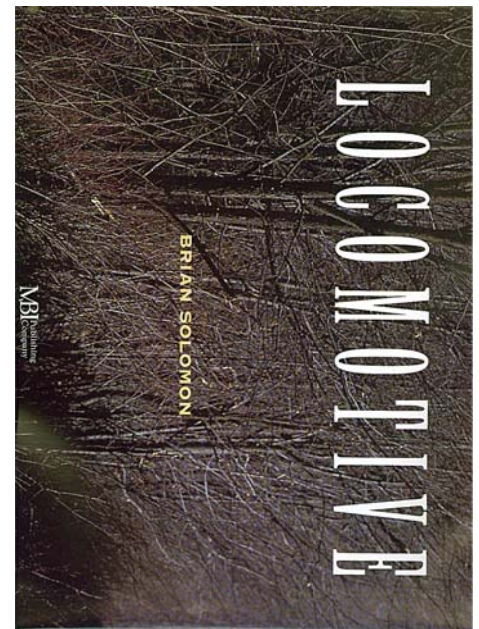
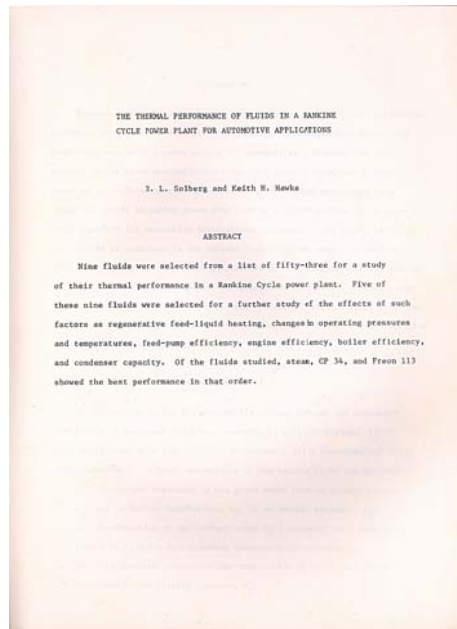
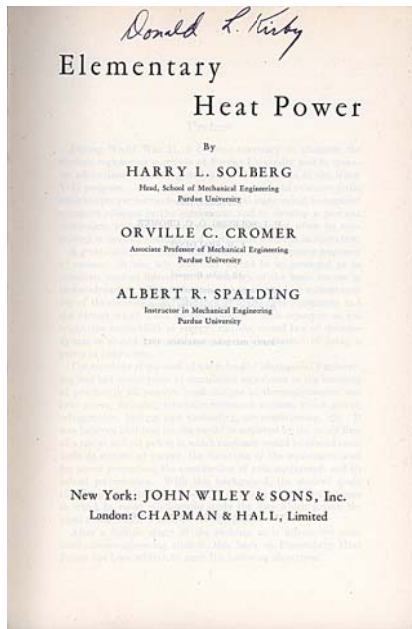
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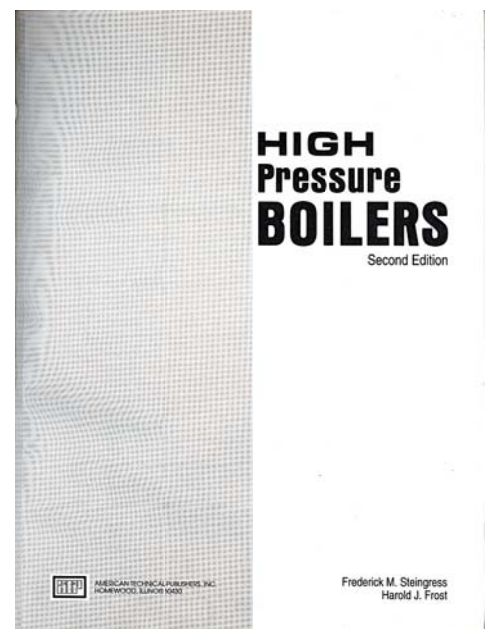
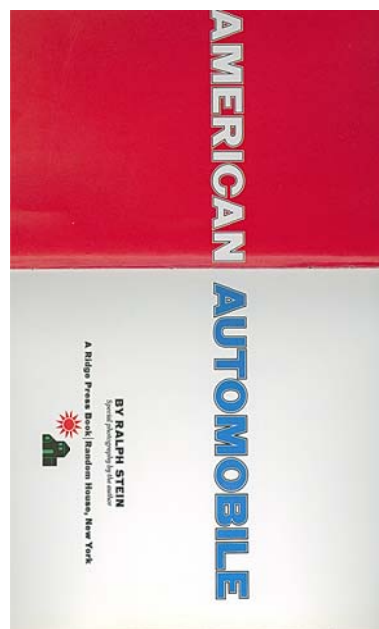
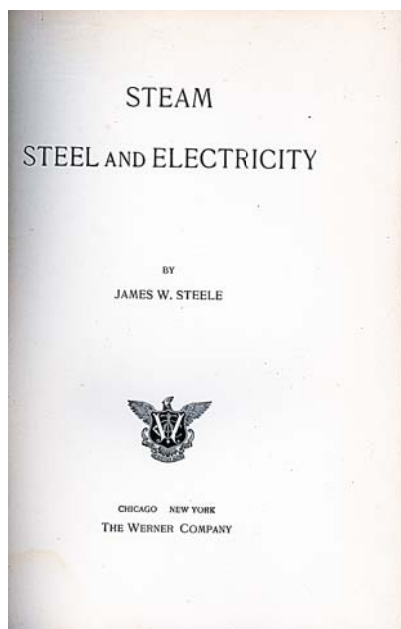
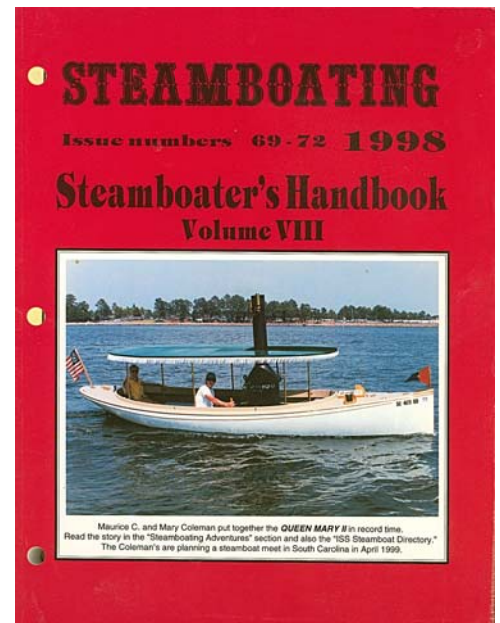
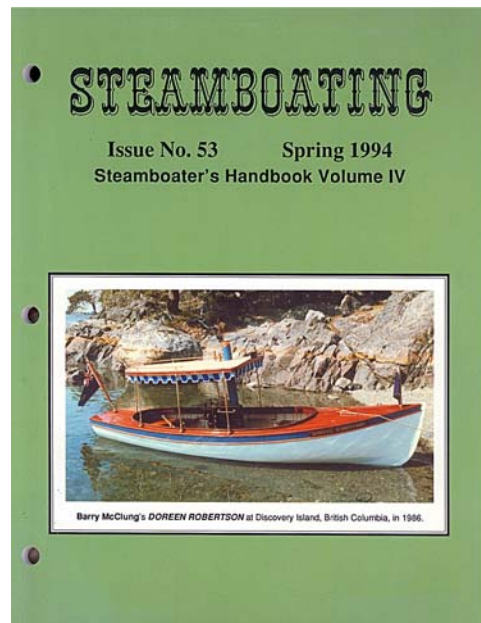
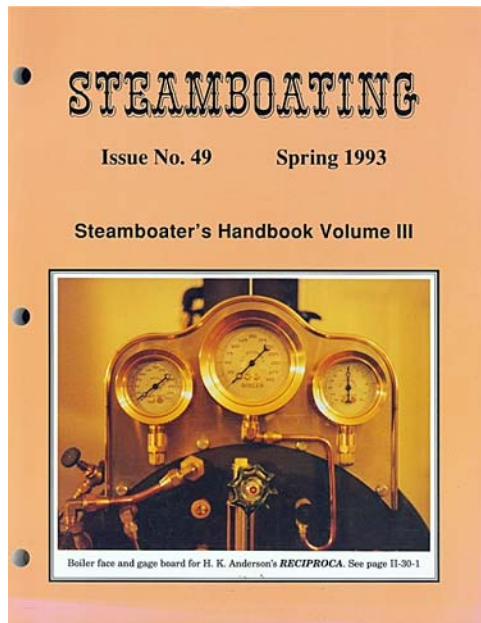
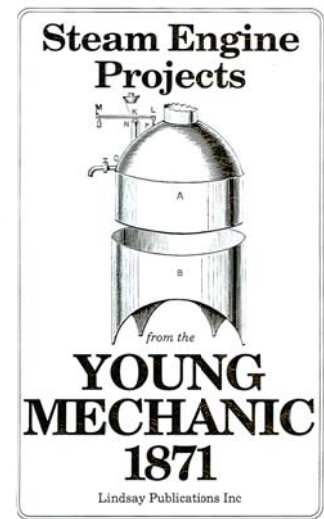
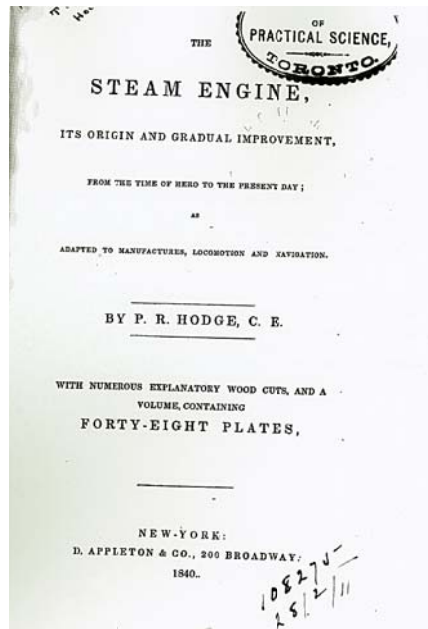
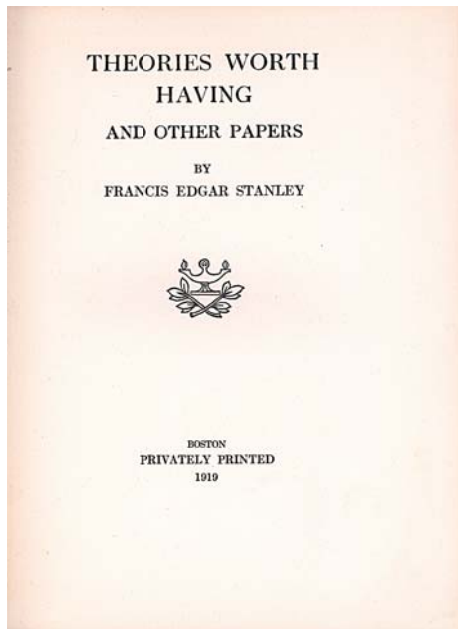














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Professor at the Polytechnicum in Zurich

Authorized translation from the sixth German edition

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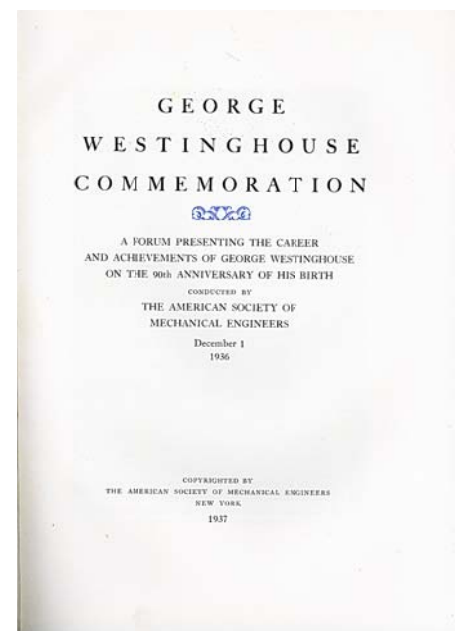
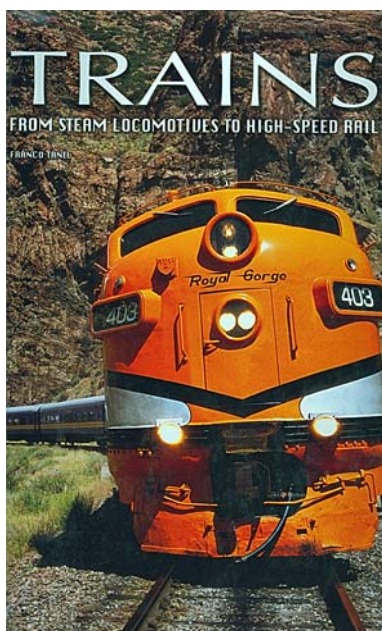
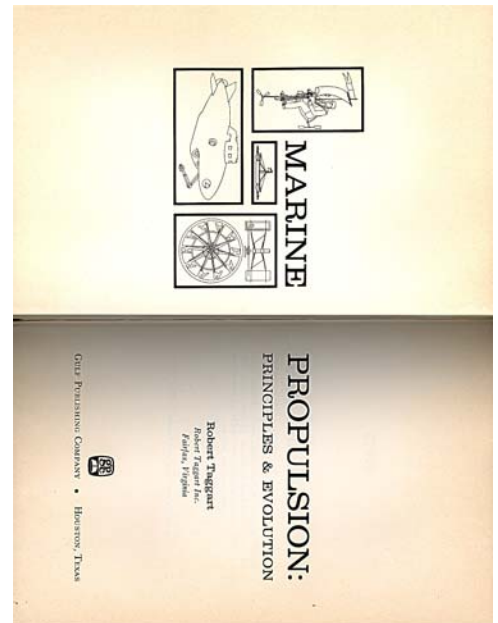
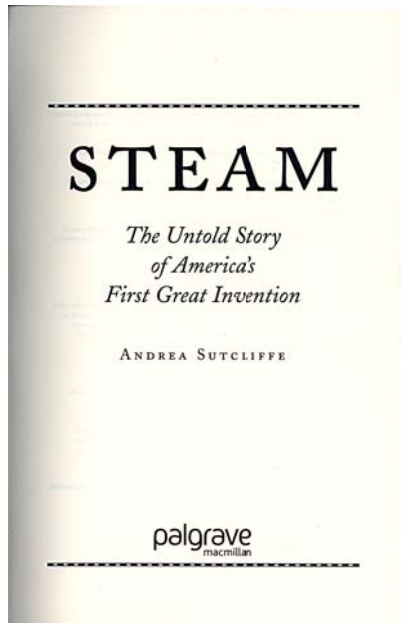
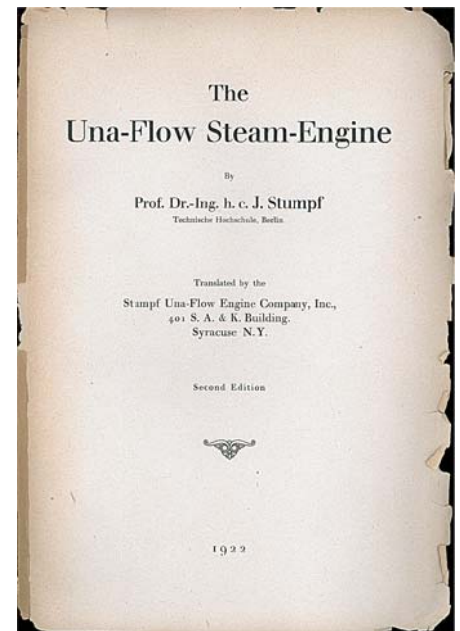
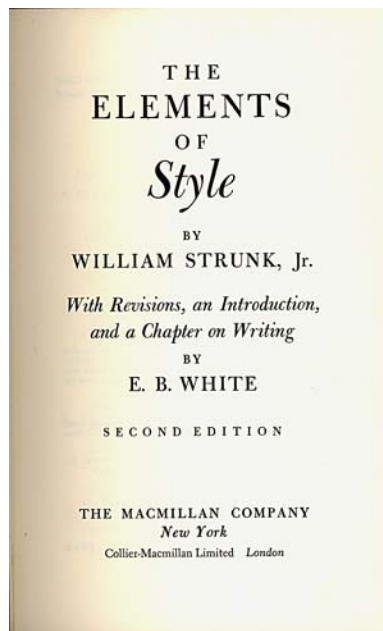


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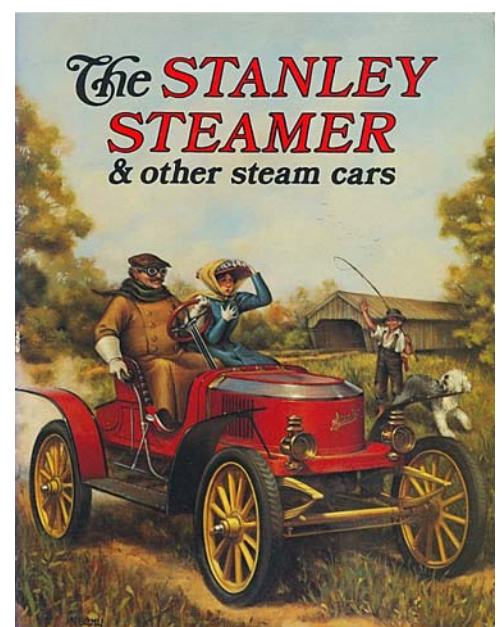
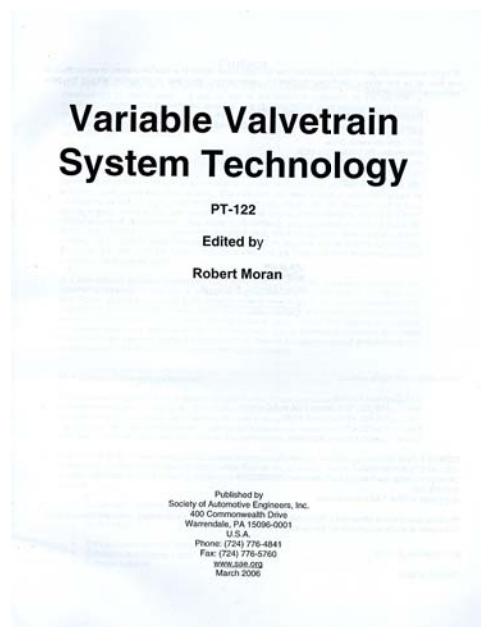
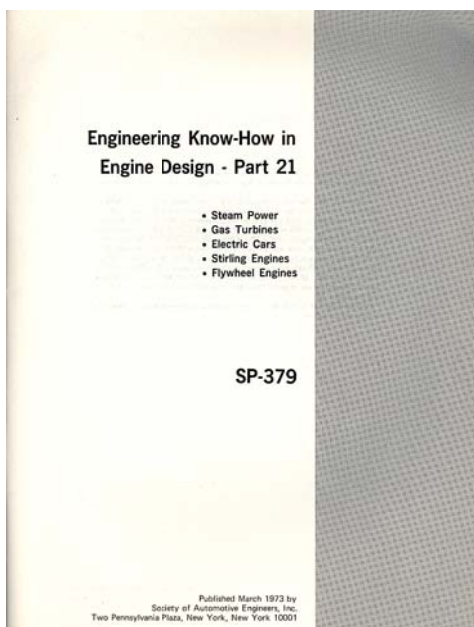
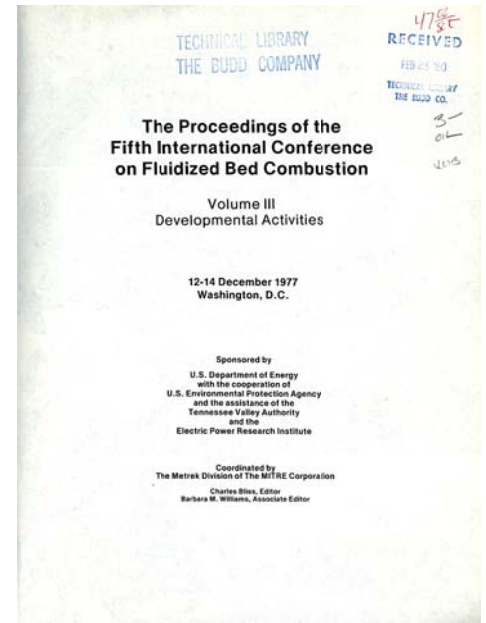
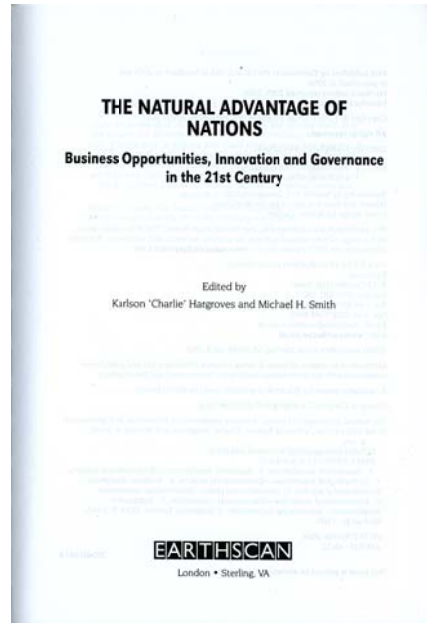
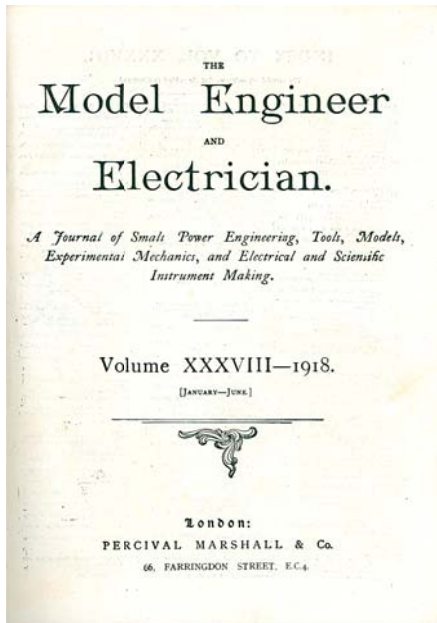
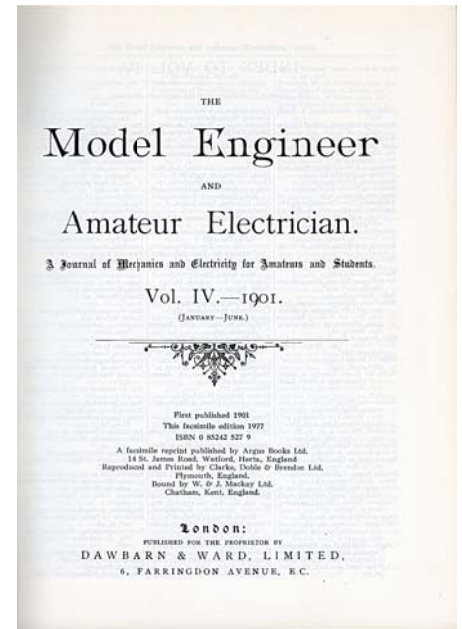
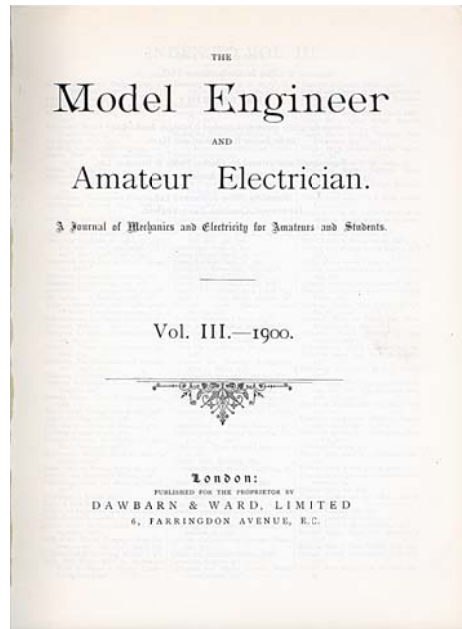
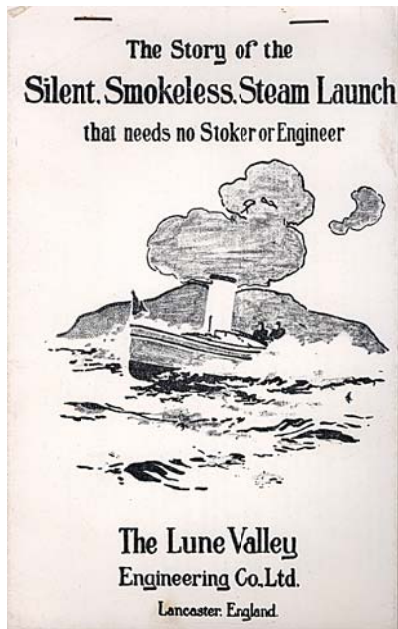
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## CONTENTS

*Railway-Motor Car Traffic*; by Mr. T. HENRY HUGHES, Vice-President, and Mr. ROBERT B. HARRIS, Associate Member. (Pages 651; Pages 702-703.)  
*Some Notes on the Mechanical Equipments of Collieries*; by Mr. R. M. HARR. (Page 719; Pages 81-82.)  
*Steam as a Motive Power for Public Service Vehicles*; by Mr. THOMAS CARRINGTON, Member. (Page 733; Pages 82-86.)  
*Lighting of Railway Premises: Indoor and Outdoor*; by Mr. HENRY POWELL, Member. (Page 865; Pages 87-88.)  
*Motors* (Page 949): *Frederick Taylor*; James Robert Dalgreen; Charles Frederick Fuchs; George Douglas Hughes; Major James Henry L'Estrange Johnston, M.V.O., B.E., R.E.; Robert Low; John McDonald; Henry Powrie; Sir Edward James Keble, K.C.B., F.R.S.; James Brown; William Russell Brown; William Russell Brown; Walter Shaw; Walter Mackenzie Smith; Edwin Wile Windover.  
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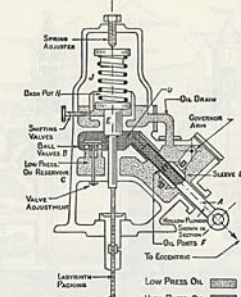


Fig. 114. Oil-operated valve gear.

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