

**THE STRAINS IN TRUSSES  
COMPUTED BY MEANS OF  
DIAGRAMS: WITH TWENTY  
EXAMPLES DRAWN TO SCALE**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649350445

The Strains in Trusses Computed by Means of Diagrams: With Twenty Examples Drawn to Scale by Francis A. Ranken

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**FRANCIS A. RANKEN**

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## STRAINS IN TRUSSES.

LONDON: PRINTED BY  
SPOTTISWOODE AND CO., NEW-BURKET SQUARE  
AND PARLIAMENT STREET

THE  
STRAINS IN TRUSSES

COMPUTED BY MEANS OF DIAGRAMS:

WITH

TWENTY EXAMPLES DRAWN TO SCALE.

BY

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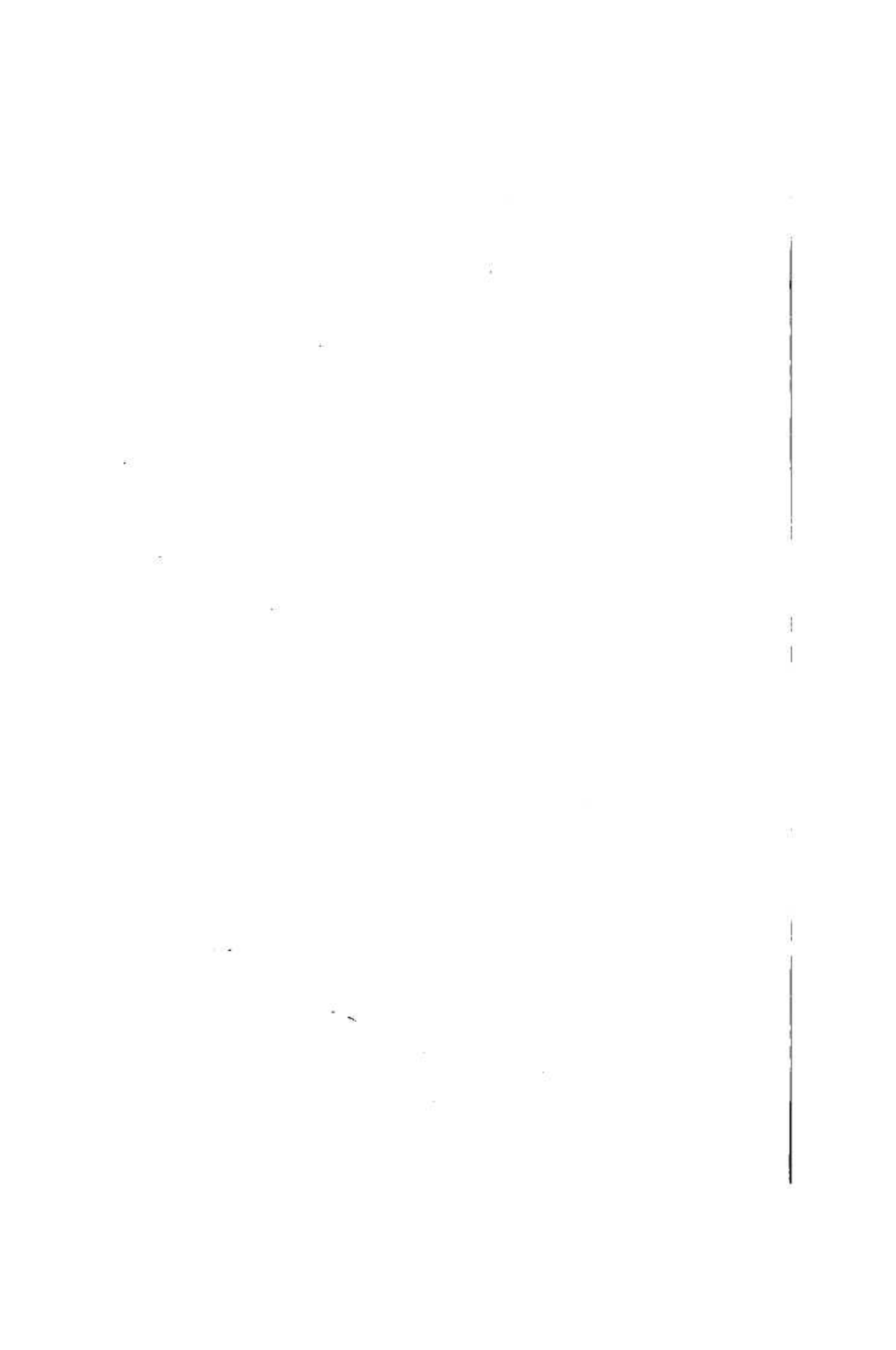
D. APPLETON AND CO.  
NEW YORK.  
1872.

## P R E F A C E .

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IN THE FOLLOWING PAGES I have endeavoured to set in a clear light the theory and method of computing by diagrams the Strains in Trusses bearing a constant load, without taking into consideration the subject of transverse strain. While treating only Balancing Systems of forces in one plane, each system acting on a point, I have purposely avoided introducing the Principle of Moments, wishing to confine myself to the results to be deduced from the Parallelogram of Forces. I have tried to avoid everything that might give the appearance of difficulty, and I hope that what I have written may be found intelligible even by those who have no previous knowledge of Statics. In doing so I have made use of the assistance of others when necessary, and I have to thank Professor FULLER, of University College, for several suggestions.





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