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

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FRANCIS A. RANKEN

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THE

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TWENTY EXAMPLES DRAWN TO SCALE.

BY

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PREFACE.

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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