

Excerpt from Theory of Transverse Strains and Its Application in the Construction of Buildings: Including a Full Discussion of the Theory and Construction of Floor Beams, Girders, Headers, Carriage Beams, Bridging, Rolled-Iron Beams, Tubular Iron Girders, Cast-Iron Girders, Framed Girders, and Roof Trusses; With Tables, Calculated and Prepared ExpreThis work is intended for architects and students of architecture. Within the last ten years, many books have been written upon the mathematics of construction. Among them are several of particular excellence. Few, however, are of a character adapted to the specific wants of the architect. The subject is treated, by some, in the abstract, and in a manner so diffuse and general as to be useful only to instructors. In other works, where a practical application is made, the wants of the civil engineer rather than of the architect are consulted. Writers of scientific books, as well as the public at large, have failed to appreciate the wants of the architect. Indeed, many architects are content to forego a knowledge of construction; following precedent as far as precedent will lead, and, for the rest, trusting to the chances of mere guess-work. For such, all scientific works are alike useless; but there is a class of architects who, through a faulty system of education, have failed to obtain, while students, the knowledge they need; and who now have little time and less inclination to apply themselves to abstract or inappropriate works, although feeling keenly the need of some knowledge which will help them in their daily duties. For this class, and for students in architecture, this book is written. In fitting it for its purpose, the course adopted has been to present an idea at first in concrete form, and then to lead the mind gradually to the abstract truth or first principles upon which the idea is based. This method, or the manner in which it is executed, may not meet the approval of all. Nevertheless, it is hoped that those for whom the work is written may, by its help, acquire the knowledge they need, and be enabled to solve readily the problems arising in their professional practice. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

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