

This volume, which is the third in my work on Structural Engineering, comprises: 1. The theory of statically determined framed structures, by analytical and graphical methods. The subject of graphical statics is presented in a comprehensive manner, showing how any problem of statics may be solved graphically as well as analytically. 2. The theory and design of masonry structures, giving the fundamental principles and the methods of their application, and the theory of earth pressure. Reinforced concrete is not treated in this volume. The next volume, which is nearly completed, will treat of the design of framed structures and of beams and girders, with the principles governing dimensioning; and it will also contain an extended chapter in which the theory and design of structures of reinforced concrete are discussed. Statically undetermined structures, such as the reinforced concrete arch, will be treated in the fifth and final volume of the series, which is about half completed. The present volume and the succeeding one contain essentially the course which the writer has been giving for many years at the Massachusetts Institute of Technology and at Harvard University, considerably extended and brought to date. It is hoped that they will meet the needs of practicing engineers as well as of students in technical schools. A course of four years in a technical school, in the writer's opinion, does not permit of doing more than two things, or rather, of attempting to do them, namely: 1. To train the student to think and to acquaint him with the principles governing scientific investigation. 2. To show him the elementary fundamental principles of the branches of engineering. Unless he has learned these two things, the student is not qualified to pursue the higher or more complicated branches of the subject with understanding. Realizing this, the writer has never at (Typographical errors above are due to OCR software and don't occur in the book.)

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Associate Professor of Architecture and Civil & Environmental Engineering While existing tools focus on providing an analysis of the stress state, the The feasibility of masonry structures is modeled using a novel .. Reprinted from Block et al. tures by implementing graphic statics in the parametric geometry software. Instructor in Architectural Engineering, University of Illinois. subject. The object has been to deal with the analysis of stresses rather Graphical Construction and Measurement of an Angle. 3. 4. . MASONRY. ART. PAGE. methods for architects and structural engineers is directly linked to the .. self- stressed or

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