



# Theory of Structures

*Choong Kok Keong, Mustafasanie M. Yussof, Taksiah A. Majid*

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This book aims at providing students of civil engineering with basic skill of structural analysis to determine internal forces as well as deflection of statically determinate planar structures. It covers major structural types of trusses, beams, and frames. Three-pinned arches and cables are also covered to complete the coverage of statically determinate structures. As for deflection of structures, the use of moment-area method and conjugate beam method are covered. The effect of moving load on structures under the topic of influence line is also included. The emphasis of the book is on development of students' ability to formulate procedures needed to solve statically determinate problem. Importance of using appropriate free body diagrams to assist in the process of analysis is emphasized through the use of diagrams in the examples given in the book. The students are expected to be able to develop proficiency of solving for internal forces and deflections through the worked examples given in the book. Apart from quantitative analysis, an important skill of qualitative analysis through sketching of qualitative deflected shape based on bending moment diagram is also covered.

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