



# **CIVIL ENGINEERING CALCULATIONS IN DEPTH**

**MISTRESELASIE S. ABATE  
(MSc, PE, PMP, MBA)**



# Civil Engineering Calculations

**Tyler Hicks**



## **Civil Engineering Calculations:**

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Civil Engineering Calculations Reference Guide Tyler Gregory Hicks, Max Kurtz, 1987

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**Civil Engineering Calculations Using SI Units** R. Ernest Leffel, American Society of Civil Engineers, 1974\*

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paper analysis with a solution conclusion and recommendation in such a way the reader will end up with a detailed understanding of the subject matter. In addition, almost all of the research and findings of the papers presented here have been evaluated and assessed by my professor when I was an M Sc student at AIU. This facilitates stepwise learning, prevents confusion, and makes this book useful for beginners as well as experienced engineers. This book is organized to present the most important and frequently used topics in civil engineering and to discuss it in depth as a way to demonstrate the importance of integrating both structural design and project management in the area of engineering. The book includes topics such as foundation design, Earth retaining structural design, project construction management, structural design of flat slabs and steel structural design. To provide a full overview of each topic, I have included explanations and lectures from AIU University and other lecturers along with AIU materials.

Calculations in Hydraulic Engineering: Calculations in hydro-kinetics. New ed Thomas Claxton Fidler, 1914

Geotechnical Engineering Calculations and Rules of Thumb Ruwan Abey Rajapakse, 2015-11-18

Geotechnical Engineering Calculations and Rules of Thumb Second Edition offers geotechnical civil and structural engineers a concise, easy-to-understand approach to selecting the right formula and solving even the most difficult calculations in geotechnical engineering. A quick look-up guide, this book places formulas and calculations at the reader's fingertips. In this book, theories are explained in a nutshell, and then the calculation is presented and solved in an illustrated, step-by-step fashion. In its first part, the book covers the fundamentals of Geotechnical Engineering: Soil investigation, condition, and theoretical concepts. In the second part, it addresses Shallow Foundations, including bearing capacity, elastic settlement, foundation reinforcement, grillage design, footings, geogrids, tie and grade beams, and drainage. This section ends with a chapter on selecting foundation types. The next part covers Earth Retaining Structures and contains chapters on its basic concepts and types: gabion walls and reinforced earth walls. The following part covers Geotechnical Engineering Strategies, providing coverage of software, instrumentation, excavations, raft design, rock mechanics, dip angle, and strike rock stabilization equipment, soil anchors, tunnel design, seismology, geosynthetics, and slurry cutoff walls. The final part is on Pile Foundations, including content on design on sandy soils, clay soils, pin piles, negative skin friction, caissons, and pile clusters. In this new and updated edition, the author has incorporated new software, calculation tools, current techniques for foundation design, liquefaction information, seismic studies, laboratory soil tests, geophysical techniques, new concepts for foundation design, and Dam designs. All calculations have been updated to most current material characteristics available in the market.

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