



# **CIVIL ENGINEERING CALCULATIONS IN DEPTH**

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



# Civil Engineering Calculations

**Tyler Gregory Hicks, Max Kurtz**



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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.

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