



Construction Calculations Manual

Sidney M Levy

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Construction Calculations is a manual that provides end users with a comprehensive guide for many of the formulas, mathematical vectors and conversion factors that are commonly encountered during the design and construction stages of a construction project. It offers readers detailed calculations, applications and examples needed in site work, cost estimation, piping and pipefitting, and project management. The book also serves as a refresher course for some of the formulas and concepts of geometry and trigonometry.

The book is divided into sections that present the common components of construction. The first section of the book starts with a refresher discussion of unit and systems measurement; its origin and evolution; the standards of length, mass and capacity; terminology and tables; and notes of metric, U.S, and British units of measurements. The following concepts are presented and discussed throughout the book:

Conversion tables and formulas, including the Metric Conversion Law and conversion factors for builders and design professionals

Calculations and formulas of geometry, trigonometry and physics in construction

Rudiments of excavation, classification, use of material, measurement and payment

Soil classification and morphology, including its physicochemical properties

Formulas and calculations needed for soil tests and evaluations and for the design of retaining structures

Calculations relating to concrete and masonry

Calculations of the size/weight of structural steel and other metals

Mechanical properties of wood and processing of wood products

Calculations relating to sound and thermal transmission

Interior finishes, plumbing and HVAC calculations

Electrical formulas and calculations

Construction managers and engineers, architects, contractors, and beginners in engineering, architecture, and construction will find this practical guide useful for managing all aspects of construction.

- Work in and convert between building dimensions, including metric
- Built-in right-angle solutions
- Areas, volumes, square-ups
- Complete stair layouts
- Roof, rafter and framing solutions
- Circle: arcs, circumference, segments

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