Civil Engineering Calculations

Ruwan Abey Rajapakse

Handbook of Civil Engineering Calculations, Second Edition Tyler G. Hicks,S. David Hicks,2007-05-23 Table of Contents Preface How to Use This Handbook Sect. 1 Structural Steel Engineering and Design Sect. 2 Reinforced and Prestressed Concrete Engineering and Design Sect. 3 Timber Engineering Sect. 4 Soil Mechanics Sect. 5 Surveying, Route Design, and Highway Bridges Sect. 6 Fluid Mechanics, Pumps, Piping, and Hydro Power Sect. 7 Water Supply and Stormwater System Design Sect. 8 Sanitary Wastewater Treatment and Control Sect. 9 Engineering Economics Index 1.

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

Construction Engineering Design Calculations and Rules of Thumb Ruwan Abey Rajapakse,2016-09-02 Construction Engineering Calculations and Rules of Thumb begins with a brief, but rigorous, introduction to the mathematics behind the equations that is followed by self-contained chapters concerning applications for all aspects of construction engineering. Design examples with step-bystep solutions, along with a generous amount of tables, schematics, and calculations are provided to facilitate more accurate solutions through all phases of a project, from planning, through construction and completion. Includes easy-to-read and understand tables, schematics, and calculations Presents examples with step-by-step calculations in both US and SI metric units Provides users with an illustrated, easy-to-understand approach to equations and calculation methods

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designand project management in the area of engineering. The book includes topics such as foundationdesign, Earth quick structural design, Earth retaining structural design, project constructionmanagement, structural design of flat slabs, and steel structural design. To provide a full overview ofeach topic, I have included explanations and lectures from AIU University and other lecturers, alongwith AIU materials.

<u>Basic Engineering Calculations for Contractors</u> August William Domel,1997 The primary goal of this book is to present the fundamentals of the technical aspects of residential construction.

Standard Handbook of Engineering Calculations (4th Edition). Tyler G. Hicks,2000

<u>Standard Handbook of Engineering Calculations</u> Tyler Hicks,2005 Now substantially revised and improved, this invaluable handbook provides engineers and technicians with more than 5,000 direct and related calculations for solving day-to-day problems quickly and easily. The book covers 13 disciplines--including civil, architectural, mechanical, electrical, electronics, control, marine, and nuclear engineering--enabling readers to become familiar with procedures in fields apart from their own. The third edition features a major new section on environmental engineering, plus increased emphasis on environmental factors in the other 12 disciplines.

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Civil Engineer's Handbook of Professional Practice Karen Hansen, Kent Zenobia, 2011-03-31 A well-written, hands-on, single-source guide to the professional practice of civil engineering There is a growing understanding that to be competitive at an international level, civil engineers not only must build on their traditional strengths in technology and science but also must acquire greater mastery of the business of civil engineering. Project management, teamwork, ethics, leadership, and communication have been defined as essential to the successful practice of civil engineering by the ASCE in the 2008 landmark publication, Civil Engineering Body of Knowledge for the 21st Century (BOK2). This single-source guide is the first to take the practical skills defined by the ASCE BOK2 and provide illuminating techniques, quotes, case examples, problems, and information to assist the reader in addressing the many challenges facing civil engineers in the real world. Civil Engineer's Handbook of Professional Practice: Focuses on the business and management aspects of a civil engineer's job, providing students and practitioners with sound business management principles Addresses contemporary issues such as permitting, globalization, sustainability, and emerging technologies Offers proven methods for balancing speed, quality, and price with contracting and legal issues in a client-oriented profession Includes guidance on juggling career goals, life outside work, compensation, and growth From the challenge of sustainability to the rigors of problem recognition and solving, this book is an essential tool for those practicing civil engineering.

Construction Calculations Manual Sidney M Levy, 2011-09-19 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 books 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

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<u>Elastic Beam Calculations Handbook</u> Jih-Jiang Chyu,2009 In this book Chyu presents a mathematically rigorous treatment, written at a simple technical level, so structural engineers who are concerned directly with structural analysis of elastic beam problems will quickly learn the essentials and be equipped to apply elastic beam calculations in their work.

Standard Handbook of Engineering Calculations Tyler Gregory Hicks,1985 Standard Handbook of Engineering Calculations Tyler Gregory Hicks,1995 This invaluable handbook provides engineers and technicians with more than 5,000 direct and related calculations for solving day-to-day problems quickly and easily. The book covers 13 disciplines--including civil, architectural, mechanical, electrical, electronics, and nuclear engineering--enabling readers to become familiar with procedures in fields apart from their own.

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