

## Handbook Of Civil Engineering Calculations 2nd Edition

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Preface: This handbook presents a comprehensive collection of civil engineering calculation procedures useful to practicing civil engineers, surveyors, structural designers, drafters, candidates for professional engineering licenses, and students. Engineers in other disciplines/mechanical, electrical, chemical, environmental, etc.)will also find this handbook useful for making occasional calculations outside their normal field of specialty.

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General Description This handbook presents a comprehensive collection of civil engineering calculation procedures useful to practicing civil engineers, surveyors, structural designers, drafters, candidates for professional engineering licenses, and students.

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Up-To-Date Techniques for Solving Any Civil Engineering Problem Perform complex design and construction calculations quickly and accurately with help from this thoroughly revised guide. Handbook of Civil Engineering Calculations, Third Edition, features more than 3,000 logically organized calculations that align with the latest practices, codes, and standards. You will get start-to-finish calculation procedures for Load Resistance Factor Design (LRFD), anti-terrorism components, enhanced building security, green construction, safe bridge design, and environmentally sound water treatment. All-new steps to improve indoor air quality and protect structures from hurricanes, tornadoes, floods, and waves are also discussed in this on-the-job resource. This fully updated third edition covers: - Structural Steel Engineering and Design - Reinforced and Pre-stressed Concrete Engineering and Design - Timber Engineering - Soil Mechanics - Surveying, Route Design, and Highway Bridges - Fluid Mechanics, Pumps, Piping, and Hydro Power - Water Supply and Storm Water System Design - Sanitary Wastewater Treatment and Control - Engineering Economics

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First published in 1995, the award-winning Civil Engineering Handbook soon became known as the field's definitive reference. To retain its standing as a complete, authoritative resource, the editors have incorporated into this edition the many changes in techniques, tools, and materials that over the last seven years have found their way into civil engineering research and practice. The Civil Engineering Handbook, Second Edition is more comprehensive than ever. You'll find new, updated, and expanded coverage in every section. In fact, more than 1/3 of the handbook is new or substantially revised. In particular you'll find increased focus on computing reflecting the rapid advances in computer technology that has revolutionized many aspects of civil engineering. You'll use it as a survey of the field, you'll use it to explore a particular subject, but most of all you'll use The Civil Engineering Handbook to answer the problems, questions, and conundrums you encounter in practice.

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