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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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Instant Access to Civil Engineering Formulas Fully updated and packed with more than 500 new formulas, this book offers a single compilation of all essential civil engineering formulas and equations in one easy-to-use reference. Practical, accurate data is presented in USCS and SI units for maximum convenience. Follow the calculation procedures inside Civil Engineering Formulas, Second Edition, and get precise results with minimum time and effort. Each chapter is a quick reference to a well-defined topic, including: Beams and girders Columns Piles and piling Concrete structures Timber engineering Surveying Soils and earthwork Building structures Bridges and suspension cables Highways and roads Hydraulics, dams, and waterworks Power-generation wind turbines Stormwater Wastewater treatment Reinforced concrete Green buildings Environmental protection

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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SOLVE ENERGY PROBLEMS QUICKLY AND ACCURATELY Filled with step-by-step procedures for performing hundreds of calculations, this practical guide helps you solve a variety of applied energy engineering design and operating problems. Handbook of Energy Engineering Calculations features worked-out examples and enables you to obtain accurately results with minimum time and effort. Calculation procedures emphasize greenhouse gas and carbon dioxide emissions control as well as energy conservation and reuse. This is an invaluable, time-saving resource for anyone involved in energy engineering. Comprehensive coverage includes: Energy conversion engineering Steam power generation Gas-turbine power generation Internal-combustion engine energy analysis Nuclear energy engineering Hydroelectric energy power plants Wind power energy design and application Solar power energy application and usage Geothermal energy engineering Ocean energy engineering Heat transfer and energy conservation Fluid transfer engineering Interior climate control energy economics Energy conservation and environmental pollution control

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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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