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Requirements -- E-3. The Use of Hooks -- E-4. Size Limitations to the Use of Dowels -- E-5. Size Substitution—compression Bars -- Appendix F Buoyancy -- F-1. General -- F-2. Sample Problems -- G-1. Introduction -- G-2. The Mathematics of Tan ? -- Appendix H The Mathematics of Mohr's Circle -- H-1. Proof That the Locus of Points in Figure 4-5 is A Circle -- H-2. Proof That the Central Angle Bcd in Figure 4-6 Equals $2i$ -- References.

Sommario/riassunto

Soils and Foundations for Architects and Engineers, Second Edition is a practical guide to the technology of soil mechanics and foundations, and the application of that technology to the design and construction process. This text provides an up-to-date overview of the classification of soils, the design of foundations, and the behavior of soils under load. Particular emphasis has been given to the subject of piles, piers, and caissons, and to the design and details of construction of basement and retaining walls. New to this edition: Expanded coverage of shear strength of soils, settlement analysis, and expansive soil. Design requirements for prestressed tiebacks, tiedowns, and rock anchors. Expansion of information on pile driving techniques including the use of the Engineering News Formula. A table of British-metric conversions. Many new solved problems and illustrations. In addition to the numerous new improvements, the author also includes: effects of high water tables on architectural and engineering considerations, design of shear keys used in the transfer of lateral earth pressure from a wall to the supporting element, various drainage alternatives to the structural treatment of adjacent footings, and much more. Soils and Foundations for Architects and Engineers, Second Edition can be used in advanced undergraduate and graduate level courses offered in architectural engineering and civil engineering, as well as be used as a reference book by practicing architects, insurance adjusters and attorneys who litigate or adjudicate claims involving soils and foundations.
