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Foundation Design: Theory and Practice

N. S. V. Kameswara Rao

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Foundation Design: Theory and Practice N. S. V. Kameswara Rao
In Foundation Design: Theory and Practice, Professor N. S. V. Kameswara Rao covers the key aspects of the subject, including principles of testing, interpretation, analysis, soil-structure interaction modeling, construction guidelines, and applications to rational design. Rao presents a wide array of numerical methods used in analyses so that readers can employ and adapt them on their own. Throughout the book the emphasis is on practical application, training readers in actual design procedures using the latest codes and standards in use throughout the world.

- Presents updated design procedures in light of revised codes and standards, covering:
  - American Concrete Institute (ACI) codes
  - Eurocode 7
  - Other British Standard-based codes including Indian codes
- Provides background materials for easy understanding of the topics, such as:
  - Code provisions for reinforced concrete
  - Pile design and construction
  - Machine foundations and construction practices
  - Tests for obtaining the design parameters
- Features subjects not covered in other foundation design texts:
  - Soil-structure interaction approaches using analytical, numerical, and finite element methods
  - Analysis and design of circular and annular foundations
  - Analysis and design of piles and groups subjected to general loads and movements
- Contains worked out examples to illustrate the analysis and design
- Provides several problems for practice at the end of each chapter
- Lecture materials for instructors available on the book's companion website

Foundation Design is designed for graduate students in civil engineering and geotechnical engineering. The book is also ideal for advanced undergraduate students, contractors, builders, developers, heavy machine manufacturers, and power plant engineers. Students in mechanical engineering will find the chapter on machine foundations helpful for structural engineering applications.

Companion website for instructor resources: www.wiley.com/go/rao

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