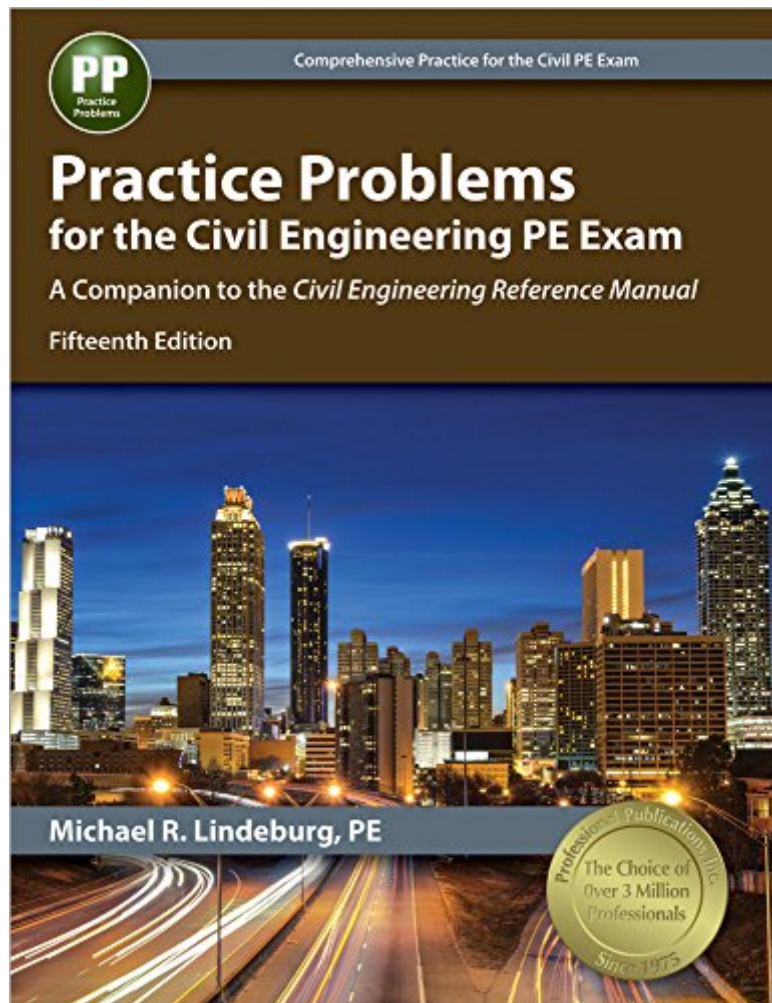


Practice Problems for the Civil Engineering PE Exam PDF



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Exam Topics Covered

- **Civil Breadth:** Project Planning; Means and Methods; Soil Mechanics; Structural Mechanics; Hydraulics and Hydrology; Geometrics; Materials; Site Development
- **Construction:** Earthwork Construction and Layout; Estimating Quantities and Costs; Construction Operations and Methods; Scheduling; Material Quality Control and Production; Temporary Structures; Health and Safety
- **Geotechnical:** Site Characterization; Soil Mechanics, Laboratory Testing, and Analysis; Field Materials Testing, Methods, and Safety; Earthquake Engineering and Dynamic Loads; Earth Structures; Groundwater and Seepage; Problematic Soil and Rock Conditions; Earth Retaining Structures; Shallow Foundations; Deep Foundations
- **Structural:** Analysis of Structures; Design and Details of Structures; Codes and Construction
- **Transportation:** Traffic Engineering; Horizontal Design; Vertical Design; Intersection Geometry; Roadside and Cross-Section Design; Signal Design; Traffic Control Design; Geotechnical and Pavement; Drainage; Alternatives Analysis
- **Water Resources and Environmental:** Analysis and Design; Hydraulics—Closed Conduit; Hydraulics—Open Channel; Hydrology; Groundwater and Wells; Wastewater Collection and Treatment; Water Quality; Drinking Water Distribution and Treatment; Engineering Economic Analysis

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