



Practice Problems for the Mechanical Engineering PE Exam, 13th Ed

(Comprehensive Practice for the Mechanical Pe Exam)

By Michael R. Lindeburg PE

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Comprehensive Practice for the Mechanical PE Exam

Practice Problems for the Mechanical Engineering PE Exam contains over 850 problems designed to reinforce your knowledge of the topics presented in the *Mechanical Engineering Reference Manual*. Over 300 new stand-alone, multiple-choice problems are designed to be solved in six-minute or less. These demonstrate the format of the NCEES Mechanical PE exam, and focus on individual engineering concepts. The remaining 550 problems are longer and more complex, challenging your skills in identifying and applying related engineering concepts.

"A 6-minute zinger illustrates the exam format. The harder problems teach you engineering." -Michael R. Lindeburg, PE

Solutions are clearly written, complete, and easy to follow. U.S. customary and SI units are equally supported, and units are meticulously identified and carried through in all calculations. Frequent references to figures, tables, equations, and appendices in the *Mechanical Engineering Reference Manual* will direct you to relevant support material.

Prepare for the Mechanical PE Exam by Solving Problems—The More Problems, the Better

- 851 practice problems covering the topics on the Mechanical PE exam
- Complete step-by-step solutions
- SI and U.S. Customary units used throughout
- Chapters that correspond to those in the *Mechanical Engineering Reference Manual*

What's New in This Edition

- 6 chapters with new material
- 47 chapters with revisions to existing material
- 301 new stand-alone, multiple choice exam-like problems
- 74 updated problems

Topics Covered

- **Dynamics and Vibrations:** Kinematics; Kinetics; Power Transmission Systems; Vibrating Systems
- **Materials:** Engineering Materials Properties and Testing; Thermal Treatment of Metals
- **Fluids:** Fluid Properties; Fluid Statics; Fluid Flow Parameters; Fluid Dynamics; Hydraulic Machines
- **Power Cycles:** Vapor, Combustion, and Nuclear Power Cycles; Refrigeration and Gas Compression Cycles
- **HVAC:** Psychrometrics; Fans, Ductwork, and Ventilation; Heating and Cooling Loads; Air Conditioning Systems
- **Heat Transfer:** Natural Convection; Evaporation; Condensation; Forced Convection; Radiation
- **Machine Design:** Basic and Advanced Machine Design; Pressure Vessels
- **Thermodynamics:** Inorganic Chemistry; Fuels and Combustion; Properties of Substances
- **Control Systems:** Modeling and Analysis of Engineering Systems
- **Plant Engineering:** Manufacturing Processes; Instrumentation and Measurements; Materials Handling and Processing; Fire Protection Systems; Environmental Pollutants and Remediation; Hazardous Material Storage and Disposal
- **Fundamentals:** Math Review; Probability; Statics; Engineering Economic Analysis
- **Law and Ethics:** Engineering Law; Ethics



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