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# **Michael R Lindeburg Fe Review Manual Truonganh Tuan**

**Here's a wide-ranging collection of practice problems typical of the FE exam in every respect. All exam topics are covered and SI units are used. These multiple-choice questions are conveniently arranged by subject--so you can work through just the areas where you need practice, or all 1001 problems. A full, step-by-step solution is provided for each problem.**

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**Designed to prepare you for the FE exam, FE/EIT Sample Examinations simulates the actual FE exam in every aspect, from the format and level of difficulty to the number of problems and the distribution of problems across exam topics. The most realistic practice for the FE exam 2 complete sample exams 120 morning and 60 general afternoon**

**problems on each exam Multiple-choice format, just like the exam, with solutions Increase your comfort level of solving problems in SI units Mentally prepare for the pressure of working under timed conditions**

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**The standard for Mechanical Engineering FE Review includes;**

**110 practice problems, with full solutions Set up to provide in depth analysis of likely FE exam problems This guide will get anyone ready for the Mechanical FE Exam Topics covered include Statics, Dynamics, and Fluid Mechanics Electricity & Magnetism, Materials Properties and Processing Dynamics, Kinematics, and Vibrations Mechanics of Materials, Mechanical Design and Analysis Heat Transfer, Measurement and Controls**

**The FE Civil Review offers complete coverage of the Civil FE exam knowledge areas and the relevant elements--equations,**

**figures, and tables--from the  
NCEES FE Reference Handbook.  
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thousands of equations, and  
hundreds of figures and tables, the  
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everything you need to  
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**The ideal refresher for those still  
in school or recently graduated, or  
for those who have limited time to  
study, this guide covers all the  
general FE/EIT exam subjects.  
Each chapter provides a definition**

**of terms and a concise discussion of concepts. In addition, there are 900+ practice problems and a complete eight-hour practice exam. Solutions to both the practice problems and the practice exam are included. Many examinees find the electrical and computer engineering sections of the general FE exam to be most the most challenging. Now, you can get the extra review and practice you need to meet this challenge through a concise review of the electrical and computer topics covered on the general morning and afternoon FE exams. Supplement your electrical and**

**computer engineering knowledge**  
**Over 100 multiple-choice**  
**problems, with solutions, just like**  
**the exam Over 150 solved example**  
**problems Over 225 key charts,**  
**graphs, tables, and figures**  
**Improve your confidence and**  
**problem-solving skills**

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***Michael R. Lindeburg PE's FE Chemical Review Manual offers complete review for the FE Chemical exam. Features of FE Chemical Review include: complete coverage of all exam knowledge areas equations, figures, and tables of the NCEES FE Reference Handbook to familiarize you with the reference you'll have on exam***

**day concise explanations  
supported by exam-like  
example problems, with step-  
by-step solutions to reinforce  
the theory and application of  
fundamental concepts a robust  
index with thousands of terms  
to facilitate referencing Topics  
Covered Chemical Reaction  
Engineering Chemistry  
Computational Tools  
Engineering Sciences Ethics  
and Professional Practice Fluid  
Mechanics/Dynamics Heat  
Transfer Mass Transfer and  
Separation Material/Energy  
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Statistics Process Control  
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**conditions reveal topics that  
require extra review  
determine the most efficient  
ways to solve problems  
identify the references you  
may use during the exam**  
**Exam Topics Covered**  
**Construction Geotechnical  
Structural Transportation  
Water Resources &  
Environmental**  
**NEW EDITION PE Civil Practice  
Problems contains over 900  
problems designed to  
reinforce your knowledge of  
the topics presented in the PE  
Civil Reference Manual. Short,  
six-minute, multiple-choice  
problems follow the NCEES PE  
Civil exam problem format and**

***focus on individual engineering concepts. Longer, more complex problems challenge your skills in identifying and applying related engineering concepts. Problems will also familiarize you with the codes and standards you'll use on the exam. 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. All solution methodologies permitted by the NCEES PE Civil exam (e.g., ASD and LRFD) are presented. Frequent references to***

**figures, tables, equations, and appendices in the PE Civil Reference Manual and the exam-adopted codes and standards will direct you to relevant support material.**

**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  
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***the end of every chapter use both SI and English units. Solutions are in the companion Solutions Manual.***

***Comprehensive review of thousands of engineering topics, including FE exam topics Over 980 practice problems More than 590 figures Over 400 solved sample problems Hundreds of tables and conversion formulas More than 2,000 equations and formulas A detailed 7,000-item index for quick reference For additional discipline-specific FE study tools, please visit [feprep.com](http://feprep.com).***

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**Provides an in-depth review of the fundamentals for the morning portion and the general afternoon portion of the FE exam. Each chapter is written by an expert in the field. This is the core textbook included in every FE Learning System, and contains SI units. The best preparation for discipline-specific FE exams 60 practice problems, with full solutions Two complete, simulated 4-hour discipline-specific exam Covers all the topics for that particular**

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depth review you need Topics  
covered Analog Electronic  
Circuits Communications  
Theory Computer & Numerical  
Methods Computer Hardware  
Engineering Computer  
Software Engineering Control  
Systems Theory & Applications  
Digital Systems  
Electromagnetic Theory &  
Applications Instrumentation  
Network Analysis Power  
Systems Signal Processing  
Solid-State Electronics &  
Devices***

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practice problems to illustrate the type of problems you'll encounter during the exam clear, complete, and easy-to-follow solutions to deepen your understanding of all knowledge areas covered in the exam step-by-step calculations using equations and nomenclature from the NCEES FE Reference Handbook to familiarize you with the reference you'll have on exam day Exam Topics Covered Computational Tools Dynamics, Kinematics, and Vibrations Electricity and Magnetism Engineering Economics Ethics and Professional Practice Fluid Mechanics Heat Transfer Material Properties and Processing

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Review Manual features include:  
complete coverage of all exam  
knowledge areas equations,

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figures, and tables for version 9.4 of the NCEES FE Reference Handbook to familiarize you with the reference you'll have on exam day concise explanations supported by exam-like example problems, with step-by-step solutions to reinforce the theory and application of fundamental concepts a robust index with thousands of terms Topics Covered Computational Tools Dynamics, Kinematics, and Vibrations Electricity and Magnetism Engineering Economics Ethics and Professional Practice Fluid Mechanics Heat Transfer Material Properties and Processing Mathematics Materials

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knowledge areas covered in the exam step-by-step calculations using equations and nomenclature from the NCEES FE Reference Handbook to familiarize you with the reference you'll have on exam day Exam Topics Covered Chemical Reaction Chemistry Computational Tools Engineering Engineering Sciences Ethics and Professional Practice Fluid Mechanics/Dynamics Heat Transfer Mass Transfer and Separation Material/Energy Balances Materials Science Mathematics Probability and Statistics Process Control Process Design and Economics

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**NCEES Chemical PE exam. This book is part of a comprehensive learning management system designed to help you pass the Chemical PE exam the first time. Designed to prepare you for the FE exam, "FE/EIT Sample Examinations" simulates the actual FE exam in every aspect, from the format and level of difficulty to the number of problems and the distribution of problems across exam topics. The most realistic practice for the FE exam 2 complete sample exams 120 morning and 60 general afternoon problems on each exam Multiple-choice format,**

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**The SI Solutions Manual contains solutions to all 980+ practice problems in the Engineer-In-Training Reference Manual. Because you must solve nearly all the quantitative problems on the exam using SI (metric) units, getting comfortable working with SI units is crucial.**

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14 mini-exams to assess your  
grasp of the exam's knowledge  
areas, and concise  
explanations of thousands of*

***equations and hundreds of figures and tables, the Review Manual contains everything you need to succeed on the FE Other Disciplines exam. The Review Manual organizes the Handbook elements logically, grouping related concepts that the Handbook has in disparate locations. All Handbook elements are shown in blue for easy identification. Equations, and their associated variations and values, are clearly presented. Descriptions are succinct and supported by exam-like example problems, with step-by-step solutions to reinforce the theory and application of fundamental***

***concepts. Thousands of terms are indexed to facilitate cross-referencing. To augment your review, pair your FE Other Disciplines Review Manual with PPI's FE Other Disciplines Practice Problems book. It contains more than 320 multiple choice problems designed to be solved in three minutes or less. This book follows the FE Other Disciplines Review Manual in chapter sequence, nomenclature, terminology, and methodology, so you can easily find clear explanations of topics where you need more support. Both products are part of PPI's integrated review***

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**The FE exam, the first in the two-part engineering licensing process, is taken typically by upper-level students or recent graduates in April or October. This eight-hour exam is closed-book except for a handout**

***provided in the examination room. The exam is divided into morning and afternoon sessions. The morning exam, with 120 multiple-choice problems, is the same for everyone. In the afternoon, examinees must choose to take a discipline-specific (DS) or a general exam, each with 60 multiple-choice problems. The Discipline-Specific Reviews are used to study for the afternoon DS exams.***

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***Other Disciplines Practice Problems offers comprehensive practice for the NCEES Other Disciplines FE exam. This book is part of a comprehensive learning management system designed to help you pass the FE exam the first time. FE Other Disciplines Practice Problems features include: over 320 three-minute, multiple-choice, exam-like practice problems to illustrate the type of problems you'll encounter during the exam clear, complete, and easy-to-follow solutions to deepen your understanding of all knowledge areas covered in the exam step-by-step***

***calculations using equations  
and nomenclature from the  
NCEES FE Reference  
Handbook to familiarize you  
with the reference you'll have  
on exam day Exam Topics  
Covered Chemistry Dynamics  
Electricity, Power, and  
Magnetism Engineering  
Economics Ethics and  
Professional Practice Fluid  
Mechanics and Dynamics of  
Gases and Liquids Heat, Mass,  
and Energy Transfer  
Instrumentation and Data  
Acquisition Materials Science  
Mathematics and Advanced  
Engineering Mathematics  
Statics Strength of Materials  
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solutions Two complete,  
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specific exam Covers all the  
topics for that particular  
discipline Provides the in-  
depth review you need Topics  
Covered Automatic Controls  
Computers Dynamic Systems  
Energy Conversion & Power  
Plants Fans, Pumps &  
Compressors Fluid Mechanics  
Heat Transfer Material  
Behavior/Processing  
Measurement &  
Instrumentation Mechanical***

***Design Refrigeration & HVAC  
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***exam. These problems are designed to be solved in three minutes or less to demonstrate the format and difficulty of the exam, and to help you focus on individual engineering concepts.***

***Practice Problems for the Civil Engineering PE Exam contains over 915 problems designed to reinforce your knowledge of the topics presented in the Civil Engineering Reference Manual. Short, six-minute, multiple-choice problems follow the format of the NCEES Civil PE exam and focus on individual engineering concepts. Longer, more complex problems challenge***

***your skills in identifying and applying related engineering concepts. Problems will also familiarize you with the codes and standards you'll use on the exam. 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. All solution methodologies permitted by the NCEES Civil PE exam (e.g., ASD and LRFD) are presented. Frequent references to figures, tables, equations, and appendices in the Civil Engineering Reference Manual and the exam-adopted codes***

***and standards will direct you  
to relevant support material.***

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