

Engineering Economy Exams

Distinguishing pedagogical characteristics of this market-leading text include its easy-to-read writing style, chapter objectives, worked examples, integrated spreadsheets, case studies, Fundamentals of Engineering (FE) exam questions, and numerous new end-of-chapter problems. Graphical cross-referencing is indicated so users are able to locate additional material on any one subject in the text. Quick-solve (Q-Solv) and Excel-solve (E-Solve) icons found in the text indicate the difficulty of a problem, example, or

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spreadsheet."--pub. desc.

This guide is written for the afternoon FE/EIT Industrial Exam and reviews each topic with numerous example problems and complete step-by-step solutions. End-of-chapter problems with solutions and a complete sample exam with solutions are provided.

Topics covered: Production Planning and Scheduling; Engineering Economics; Engineering Statistics; Statistical Quality Control; Manufacturing Processes; Mathematical Optimization and Modeling; Simulation; Facility Design and Location; Work Performance and Methods; Manufacturing Systems Design; Industrial Ergonomics;

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Industrial Cost Analysis; Material Handling System Design; Total Quality Management; Computer Computations and Modeling; Queuing Theory and Modeling; Design of Industrial Experiments; Industrial Management; Information System Design; Productivity Measurement and Management. 101 problems with complete solutions; SI Units. Purposeful Engineering Economics stands as a unique and highly original complement to the traditional engineering economics curriculum. This primarily narrative text conveys the essence of an "Austrian" economic perspective on cash flow analysis and decision making in engineering

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without extensive tables and graphs and requires very little mathematics. The book 's objective is to add a new perspective to the usual study of cash flow analysis and solely econometric engineering decision making. The author draws on the methodology of the Austrian Economists—a school of economic thought that bases its study of economic phenomena on the interpretation and analysis of the purposeful actions of individuals. The book includes an array of illustrative case studies examined in detail by the author and emphasizes the importance of market processes and price signals to coordinate engineering plans.

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Engineering Economy--a Behavioral Approach

Engineering Economy : EEC

1-engineering Economy

Review and Practice Exam for the Industrial Engineering Afternoon Session of the Discipline Specific Fundamentals of Engineering Examination

Engineering Economy Exam File Eit Industrial Review

Praised for its accessible tone and extensive problem sets, this trusted text familiarizes students with the universal principles of engineering economics. This essential introduction features a wealth of specific

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Canadian examples and has been fully updated with new coverage of inflation and environmental stewardship as well as a new chapter on project management.

I am often asked the question, "Should I get my PE license or not?"

Unfortunately the answer is, Probably. First let's take a look at the licensing process and understand why it exists, then take a look at extreme situations for an attempt at a yes/no answer, and finally consider the exams. All 50

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have a constitutionally defined responsibility to protect the public. From an engineering point of view, as well as many other professions, this responsibility is met by the process of licensure and in our case the Professional Engineer License. Though there are different experience requirements for different states, the meaning of the license is common. The licensee demonstrates academic competency in the Fundamentals of Engineering by examination (Principles and Practices

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at PE time). The licensee demonstrates qualifying work experience (at PE time). The licensee ascribes to the Code of Ethics of the NSPE, and to the laws of the state of registration. Having presented these qualities the licensee is certified as an Intern Engineer, and the state involved has fulfilled its constitutionally defined responsibility to protect the public.

This book is intended for engineers preparing for the Machine Design and Materials Professional

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Engineer Exam in Mechanical Engineering. In addition to in-depth coverage of Statics, Mechanics of Materials, Dynamics and Vibrations, Machine Design, and Materials Engineering, it also contains basic material on Hydraulics, Electrical Circuits, and Engineering Economy. Principles of Engineering Economic Analysis + Wileyplus Chapman & Hall's Complete Fundamentals of Engineering Exam Review Workbook Civil Engineering License

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Review, 14th Edition Barron's FE Exam Engineering Economic Analysis

Reviews basic economic concepts, including compound interest, equivalence, present worth, rate of return, depreciation, and cost-benefit ratios

A review specifically for the latest version of the Civil Engineering/Professional Engineer Exam. This review book is also ideal for the new Breadth/Depth exam. It covers exam topics in 12 sections: * Buildings * Bridges * Foundations * Retaining Structures * Seismic Design * Hydraulics * Engineering Hydrology * Water Treatment * Distribution * Wastewater Treatment * Geotechnical * Soils Engineering The review book

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offers a detailed discussion of the exam and how to prepare for it. There are 335 essay and multiple-choice exam problems, with a total of 650 individual questions. A complete 24-problem sample exam is also included. The review book has been updated for the 1997 UBC and all of the latest codes. There is also an appendix on the Engineering Economy. Since some states do not allow books containing solutions to be taken into the CE/PE Exam, the end-of-chapter problems do not have the solutions in this book.

Perfect for anyone (students or engineers) preparing for the FE exam; Endorsed by a former Director of Exams from the NCEES Describes exam structure, exam day strategies, exam scoring, and passing rate statistics; All problems in SI units in

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line with the new exam format Covers all the topics on the FE exam, carefully matching exam structure:

Mathematics, Statics, Dynamics, Mechanics of Materials, Fluid Mechanics, Thermodynamics, Electrical Circuits, Materials Engineering, Chemistry, Computers, Ethics, and Engineering Economy; Each chapter is written by an expert in the field, contains a thorough review of the topic as covered on the test, and ends with practice problems and detailed solutions Includes a complete eight-hour sample exam with 120 morning (AM) questions, 60 general afternoon (PM) questions, and complete step-by-step solutions to all problems; 918 problems total: 60% text; 40% problems and solutions
Problems & Solutions

Essentials of Engineering Economic

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Analysis

Professional Engineer

Principles of Engineering Economic
Analysis

A Practical Approach

This student-friendly text on the current economic issues particular to engineering covers the topics needed to analyze engineering alternatives.

Students use both hand-worked and spreadsheet solutions of examples, problems and case studies. In this edition the options have been increased, with an expanded spreadsheet analysis component, twice the number of case studies, and virtually all new end-of-chapter problems. The chapters on factor

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derivation and usage, cost estimation, replacement studies, and after-tax evaluation have been heavily revised. New material is included on public sector projects and cost estimation. A reordering of chapters puts the fundamental topics up front in the text. Many chapters include a special set of problems that prepare the students for the Fundamentals of Engineering (FE) exam. This college-level text provides students and practicing professionals with a solid preparation in the financial understanding of engineering problems and projects, as well as the techniques needed for

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evaluating and making sound economic decisions.

Distinguishing characteristics include learning objectives for each chapter, an easy-to-read writing style, many solved examples, integrated spreadsheets, and case studies throughout the text. Graphical cross-referencing between topics and quick-solve spreadsheet solutions are indicated in the margins throughout the text. While the chapters are progressive, over three-quarters can stand alone, allowing instructors flexibility for meeting course needs. A complete online learning center (OLC) offers supplemental

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practice problems, spreadsheet exercises, and review questions for the Fundamentals of Engineering (FE) exam.

Fundamentals of Engineering Economic Analysis offers a powerful, visually-rich approach to the subject—delivering streamlined yet rigorous coverage of the use of economic analysis techniques in engineering design. This award-winning textbook provides an impressive array of pedagogical tools to maximize student engagement and comprehension, including learning objectives, key term definitions, comprehensive case studies, classroom discussion

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questions, and challenging practice problems. Clear, topically—organized chapters guide students from fundamental concepts of borrowing, lending, investing, and time value of money, to more complex topics such as capitalized and future worth, external rate of return, depreciation, and after-tax economic analysis. This fully-updated second edition features substantial new and revised content that has been thoroughly re-designed to support different learning and teaching styles. Numerous real-world vignettes demonstrate how students will use economics as practicing engineers, while plentiful

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illustrations, such as cash flow diagrams, reinforce student understanding of underlying concepts. Extensive digital resources now provide an immersive interactive learning environment, enabling students to use integrated tools such as Excel. The addition of the WileyPLUS platform provides tutorials, videos, animations, a complete library of Excel video lessons, and much more.

This is a review book for people planning to take the PE exam in Chemical Engineering. Prepared specifically for the exam used in all 50 states. It features 188 new PE problems with detailed step by step solutions. The book

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covers all topics on the exam, and includes easy to use tables, charts, and formulas. It is an ideal desk Companion to DAS's Chemical Engineer License Review. It includes sixteen chapters and a short PE sample exam as well as complete references and an index.

Chapters include the following topical areas: material and energy balances; fluid dynamics; heat transfer; evaporation; distillation; absorption; leaching; liq-liq extraction; psychrometry and humidification, drying, filtration, thermodynamics, chemical kinetics, process control, mass transfer, and plant safety. The ideal study guide,

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this book brings all elements of professional problem solving together in one BIG BOOK. Ideal desk reference. Answers hundreds of the most frequently asked questions. The first truly practical, no-nonsense problems and solution book for the difficult PE exam. Full step-by-step solutions are included.

Chemical Engineering License Problems and Solutions

Mechanical PE Exam Review:

Machine Design and Materials

Schaums Outline of Engineering

Economics

Global Advances in Engineering Education

Fundamentals of Engineering

Economic Analysis

Contemporary Engineering Economics, 5/e, is intended for undergraduate engineering students taking introductory engineering economics while appealing to the full range of engineering disciplines for which this course is often required: industrial, civil, mechanical, electrical, computer, aerospace, chemical, and manufacturing engineering, as well as engineering technology. This edition has been

thoroughly revised and updated while continuing to adopt a contemporary approach to the subject, and teaching, of engineering economics. This text aims not only to build a sound and comprehensive coverage of engineering economics, but also to address key educational challenges, such as student difficulty in developing the analytical skills required to make informed financial decisions.

The engineering

profession is at a critical juncture that requires reforming engineering education. The supply of engineers is declining whereas the nature of the demand is changing. Formulating a response to these challenges demands the adoption of new and innovative tools and methods for promoting the expansion of the community while supporting these evolving requirements. Initiatives to entice and retain students are being employed to support

growth objectives. Modern technologies are reshaping reform efforts. This book discusses the state of affairs in the field of engineering education and presents practical steps for addressing the challenges in order to march toward a brighter future. Features Covers the latest state of engineering education in the North America, Europe, Middle East, North Africa, and Far East Asia Discusses advances in science, technology,

**engineering, and
mathematics and
community engagement
Outlines applications of
digital technologies to
enhance learning
Provides advances in
remote and online
instructions for
engineering education
Presents discussions on
innovation, leadership,
and ethics
For undergraduate,
introductory courses in
Engineering Economics.
Used by engineering
students worldwide, this
best-selling text provides**

a sound understanding of the principles, basic concepts, and methodology of engineering economy. Built upon the rich and time-tested teaching materials of earlier editions, it is extensively revised and updated to reflect current trends and issues, with an emphasis on the economics of engineering design throughout. It provides one of the most complete and up-to-date studies of this vitally important field.

***Chemical Engineering
Review for PE Exam
Civil Engineering License
Review
Professional Engineering
Exam Review Course
Fundamentals of
Engineering Economics
and Decision Analysis
Formulas and Interest
Tables with Solutions to
Exams and Quiz
Questions***

This text covers the basic techniques and applications of engineering economy for all disciplines in the engineering profession.

The writing style emphasizes brief, crisp coverage of the principle or technique discussed in order to reduce the time taken to present and grasp the essentials. The objective of the text is to explain and demonstrate the principles and techniques of engineering economic analysis as applied in different fields of engineering. This brief text includes coverage of multiple attribute evaluation for instructors who want to include non-

economic dimensions in alternative evaluation and the discussion of risk considerations in the appendix, compared to Blank's comprehensive text, where these topics are discussed in two unique chapters.

Includes more than 200 completely worked-out solutions and sample FE exam test questions.

Passing the Fundamentals of Engineering Exam is the first step toward becoming a Registered, or Professional, Engineer.

The P.E. designation is a prerequisite for work as a consulting engineer, as well as for engineering management positions in many industries. This book prepares applicants with a mini diagnostic test plus a full-length two-part practice examination with questions answered and explained.

Prospective test takers will also find valuable brush-up chapters covering all test topics: biology, chemistry, computer programming, dynamics, electricity and

magnetism, engineering economy, ethics and business practices, fluid mechanics, materials science and structure, mathematics, probability and statistics, mechanics of materials, statics, and thermodynamics and heat transfer. Additional practice questions with answer keys and explanations follow each chapter.

**Study Guide,
Fundamentals of
Engineering Economics
Mechanical Engineering
PE Exam Prep**

**EIT Chemical Review
Fundamentals of
Engineering Examination
Review 2001-2002 Edition
Mechanical Engineering
License Exam File**

**Passing the Fundamentals of
Engineering Exam is the first step
toward becoming a Registered, or
Professional, Engineer. The P.E.
designation is a prerequisite for
work as a consulting engineer, as
well as for engineering
management positions in many
industries. This book prepares
applicants who are planning to
take the exam in the field of
“mechanical” or “other”
disciplines. It includes two mini**

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diagnostic tests (one for each discipline) plus two full-length practice examinations with questions answered and explained for both disciplines. Prospective test takers will also find valuable brush-up chapters covering all test topics: chemistry, computational tools, dynamics, kinematics and vibrations, electricity and magnetism, engineering economy, ethics and professional practices, fluid mechanics, instrumentation and data acquisition, materials science and structure, mathematics, measurements, instrumentation and controls, mechanical design and analysis, probability and

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statistics, mechanics of materials, safety, health, and environment, statics, and thermodynamics and heat mass and energy transfer.

Additional practice questions with answer keys and explanations follow each chapter.

This market leaders distinguishing pedagogical characteristics include its easy to read writing style, chapter objectives, worked examples, integrated spreadsheets, Fundamentals of Engineering (FE) exam questions, and numerous end of chapter problems. (Spreadsheets are prominent and integrated within the chapters.) Basics of

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Engineering Economy provides undergraduate students and practicing professionals with a solid preparation in the financial understanding of engineering problems and projects, as well as the techniques needed for evaluating making sound economic decisions.

This is a review book for people planning to take the PE exam in Chemical Engineering. Prepared specifically for the exam used in all 50 states. It features 188 new PE problems with detailed step by step solutions. The book covers all topics on the exam, and includes easy to use tables, charts, and formulas. It is an ideal desk

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companion to DAS's Chemical Engineer License Review. It includes sixteen chapters and a short PE sample exam as well as complete references and an index. Chapters include the following topical areas: * Material and energy balances * Fluid dynamics * Heat transfer * Evaporation * Distillation * Absorption * Leaching * Liq-liq extraction * Psychrometry and humidification * Drying * Filtration * Thermodynamics * Chemical kinetics * Process control * Mass transfer * Plant safety The ideal study guide, this book brings all elements of professional problem solving

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together in one BIG BOOK. It is also an ideal desk reference, and it answers hundreds of the most frequently asked questions. It is the first truly practical, no-nonsense problem and solution book for the difficult PE exam. Full step-by-step solutions are additionally included.

Understanding Engineering Economy

Purposeful Engineering Economics

Barron's FE

Basics of Engineering Economy

Engineering Economy

This package includes a copy of ISBN 9781118163832 and a registration code for the

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WileyPLUS course associated with the text. Before you purchase, check with your instructor or review your course syllabus to ensure that your instructor requires WileyPLUS. For customer technical support, please visit <http://www.wileyplus.com/support>. WileyPLUS registration cards are only included with new products. Used and rental products may not include WileyPLUS registration cards. Principles of Engineering Economic Analysis, 6th edition teaches engineers to properly and methodically evaluate their work on an economic basis, and to convey it

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effectively to those who have the power to say "yea" or "nay." The 6th edition is updated and expanded to be comprehensive and flexible - it includes all standard topics plus stronger coverage of more advanced analysis techniques than other books, with the most thorough integration and guidance for spreadsheet use. The text provides a unified treatment of economic analysis principles and techniques from a cash flow perspective, a proven classroom approach that is very successful in practice. Chapter-opening stories about well-known companies, engineering and

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personal finance examples throughout the text, and external web resources help motivate students. FE-Like problems at the end of each chapter give students practice with the kinds of problems they'll encounter on the FE exam. The 6th edition provides students and instructors the latest tax information, and up-to-date company and industry information in the chapter opening stories, reflecting changes resulting from the recent tumult in the economy, so that students can work with the most current and relevant information.

This text is an unbound, binder-

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ready edition. Engineers need to "sell" engineering projects and products to managers, executives, and customers economically as well as technologically, environmentally, aesthetically, and so on.

Principles of Engineering Economic Analysis, 6e teaches engineers to properly and methodically evaluate their work on an economic basis, and to convey it effectively to those who have the power to say "yea" or "nay." The 6th edition is updated and expanded to be comprehensive and flexible - it includes all standard topics plus stronger coverage of more

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advanced analysis techniques than other books(e.g., risk analysis, sensitivity analysis, cost estimating, public sector economics, capital budgeting, etc.), with the most thorough integration and guidance for spreadsheet use. The text provides a unified treatment of economic analysis principles and techniques from a cash flow perspective, a proven classroom approach that is very successful in practice. Chapter-opening stories about well-known companies, engineering and personal finance examples throughout the text, and external web resources help motivate

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the WileyPLUS course (instructors may choose to adopt this text with WileyPLUS), including: Algorithmic homework problems that provide: instant feedback to students, link-to-text where students may review if they're having trouble, and Tutorial and Video Solution help. All Tutorial help is available at the instructor's discretion. 96 Worked Problem Videos, demonstrating how to solve problems, both algebraically and with Excel. The authors cover two general topics: basic engineering economics and risk analysis in this text. Within the topic of

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engineering economics are discussions on the time value of money and interest relationships. These interest relationships are used to define certain project criteria that are used by engineers and project managers to select the best economic choice among several alternatives. Projects examined will include both income- and service-producing investments. The effects of escalation, inflation, and taxes on the economic analysis of alternatives are discussed. Risk analysis incorporates the concepts of probability and statistics in the evaluation of alternatives. This

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allows management to determine the probability of success or failure of the project. Two types of sensitivity analyses are presented. The first is referred to as the range approach while the second uses probabilistic concepts to determine a measure of the risk involved. The authors have designed the text to assist individuals to prepare to successfully complete the economics portions of the Fundamentals of Engineering Exam. Table of Contents: Introduction / Interest and the Time Value of Money / Project Evaluation Methods / Service Producing Investments / Income

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*Producing Investments /
Determination of Project Cash
Flow / Financial Leverage / Basic
Statistics and Probability /
Sensitivity Analysis
Contemporary Engineering
Economics*

*A Guide to Registration
Engineering Economic Analysis:
Exam file*

*Chemical Engineering
A Supplemental Booklet to
Accompany Understanding
Engineering Economy : a
Practical Approach*

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professional credentials
as a registered P.E.
with Chemical Engineering A**

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Review for the P.E. Exam
The only P.E. examguide that conforms to the new NCEE guidelines! * Guides you step-by-step through every topic covered in theexam. * Follows NCEE question format and subject emphasis. * Practice exercises and problems, problem-solving strategies, and solutions. * Detailed coverage of thermodynamics, process design, mass transfer, heat transfer, chemical kinetics, fluid flow, and engineering economics. This work offers a concise, but in-depth

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coverage of all fundamental topics of engineering economics. Essentials of Engineering Economic Analysis, Second Edition, includes the first twelve chapters of the best-selling textbook Engineering Economic Analysis, Eighth Edition, (0-19-515152-6) by Donald G. Newnan, Jerome P. Lavelle, and Ted G. Eschenbach. This compact version introduces the fundamental concepts of engineering economics and covers essential time value of money principles for engineering projects.

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It isolates the problems and decisions engineers commonly face and examines the necessary tools for analyzing and solving those problems. Revised in 2001, the second edition focuses on the use of spreadsheets, teaching students to use the enormous capabilities of modern software. The majority of the chapters conclude with sections designed to help students create spreadsheets based on the material covered in each chapter. (The book's organization allows omission of spreadsheet

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instruction without loss of continuity.) This emphasis on spreadsheet computations provides excellent preparation for real-life engineering economic analysis problems. New Features . Over sixty-five new homework problems added to the ends of chapters . Improved content and readability . Greater emphasis on the use of spreadsheets in real-life situations . Chapter 2, Engineering Costs and Cost Estimating--an entirely new chapter suggested by adopters--answers the

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question, "Where do the numbers come from?" . An increased focus on the MACRS depreciation method with a new section on recaptured depreciation and asset disposal . An updated section on after-tax replacement efforts in Chapter 12, Replacement Analysis Supplements . Solutions Manual for Engineering Economic Analysis. This 350-page manual has been revised and checked by the authors for accuracy; all end-of-chapter problems are fully solved by the authors. Available free to adopting

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professors. (ISBN 1-57645-052-X) . Compound Interest Tables. A separate 32-page pamphlet with the compound interest tables from the textbook. Classroom quantities are free to adopting professors. (ISBN 0-910554-08-0) . Exam Files. Fourteen quizzes prepared by the authors test student knowledge of chapter content. Available free in electronic format to adopting professors. Call 1-800-280-0280 or send an email to college@oup-usa.org. . Instructor Lecture Notes

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Economic Analysis. This
320-page book features a
32-page summary of
engineering economy,
followed by 386 problems,
each with detailed
solutions. Available for
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new access code. Access codes that are purchased from sellers other than Pearson carry a higher risk of being either the wrong ISBN or a previously redeemed code. Check with the seller prior to purchase. -- Engineering Economy is intended to serve as a text for classroom instruction in undergraduate, introductory courses in Engineering Economics. It also serves as a basic reference for use by practicing engineers in all specialty areas(e.g.,

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chemical, civil, computer, electrical, industrial, and mechanical engineering). The book is also useful to persons engaged in the management of technical activities. Used by engineering students worldwide, this best-selling text provides a sound understanding of the principles, basic concepts, and methodology of engineering economy. Built upon the rich and time-tested teaching materials of earlier editions, it is extensively revised and updated to reflect current

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trends and issues, with an emphasis on the economics of engineering design throughout. It provides one of the most complete and up-to-date studies of this vitally important field. MyEngineeringLab for Engineering Economy is a total learning package that is designed to improve results through personalized learning. MyEngineeringLab is an online homework, tutorial, and assessment program that truly engages students in learning. It helps students better prepare for class,

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quizzes, and exams—resulting in better performance in the course—and provides educators a dynamic set of tools for gauging individual and class progress. Teaching and Learning Experience This program will provide a better teaching and learning experience—for you and your students. It will help: Personalize Learning: MyEngineeringLab provides students with a personalized interactive learning environment, where they can learn at their own pace and measure their progress. Provide a

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Solid Foundation in the Principles, Concepts, and Methodology of Engineering Economy: Students will learn to understand and apply economic principles to engineering. Prepare Students for Professional Practice: Students will develop proficiency with the process for making rational decisions that they are likely to encounter in professional practice. Support Learning: The TestGen testbank allows instructors to regenerate algorithmically-generated variables within each

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Engineering/Professional Engineer Exam. Covers exam topics in 12 sections:

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Treatment/Distribution; Wastewater Treatment; Geotechnical/Soils

*Engineering; and Ideal for the new breadth/depth exam
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