
Engineer Economic Snslysis 12th Edition Solutions

Electrify
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 Advanced Engineering Mathematics
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 Engineering Economic Analysis
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 Modern Labor Economics
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 Engineering Economy
 Fundamentals of Engineering Economic Analysis
 The Emerging Intersection between Control Theory and Neuroscience
 An Abstract Interpretation Perspective
 Water Resource Economics, second edition
 Engineering Economy
 Mechanical Engineer's Reference Book
 Essentials of Engineering Economic Analysis
 A Practical Approach
 Economic Development
 Guidelines for the Economic Analysis of Projects
 The U.S. Standard of Living since the Civil War
 Neural Control Engineering

*Engineer Economic
 Snslysis 12th Edition
 Solutions*

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Electrify MIT Press

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., 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 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, 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 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 problem to offer students a virtually unlimited number of paper or online assessments. Note: You are purchasing a standalone product; MyEngineeringLab does not come packaged with this content. If you would like to purchase both the

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 search for ISBN-10: 0133750213/ISBN-13:
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Discrete Choice Analysis John Wiley &
 Sons Incorporated

Transportation systems analysis is a
 multidisciplinary field which draws on
 engineering, economics, operations
 research, political science, psychology,
 management, and other disciplines. The
 major text synthesizes from these fields
 an approach that is intellectually coherent
 and comprehensive. Numerous details are
 provided to indicate how major concepts
 can be applied in practice to particular
 modes and problems. But the major
 objective of this book is to provide the
 reader with a basic framework onto which
 many different areas of specialization can
 be added by later coursework and
 practical experience. Fundamentals of
 Transportation Systems Analysis identifies
 concepts that are truly fundamental to
 serious work in the planning, design, or
 management of transportation systems. It
 also emphasizes, through more detailed
 treatment, certain topics, such as
 transportation demand and performance
 and the processes of evaluation and
 choice, that are inadequately treated in
 the available literature. A unique feature
 of the book is its emphasis on multimodal
 solutions to transportation problems. The
 student is taught to view the
 transportation system as a unified whole
 and to evaluate it within the context of the
 overall social, economic, and political
 system of a given region. According to
 Professor Manheim, "The challenge of
 transportation systems analysis is to
 intervene, delicately and deliberately, in
 the complex fabric of a society to use
 transport effectively, in coordination with
 other public and private actions, to
 achieve the goals of that society."

Advanced Engineering Mathematics
 Macmillan

The twelfth edition of the market-leading
 Engineering Economic Analysis offers
 comprehensive coverage of financial and
 economic decision making for engineers,
 with an emphasis on problem solving, life-
 cycle costs, and the time value of money.
 The authors' concise, accessible writing,
 practical emphasis, and contemporary
 examples linked to students' everyday
 lives make this text the most popular
 among students. In addition, with its
 extensive support package and logical

progression of topics, this is the easiest
 book to teach from. New to the Twelfth
 Edition * 500 new or revised problems--
 answers to most even problems now in
 Appendix E * Six new and nine updated
 chapter-opening vignettes provide
 extended real-world examples * Twenty
 new Excel tutorial videos added to the
 updated set of thirty-six from the eleventh
 edition * New visual "five-button solutions"
 help simplify the use of spreadsheets and
 calculators * A new Appendix 12A
 aggregates coverage of personal income
 taxes, which now includes time value of
 money problems INSTRUCTOR SUPPORT
 PACKAGE * An Instructor's Manual
 including full solutions to all text problems
 in print format * An updated and expanded
 set of supplemental materials, including
 new test questions, as well as the
 solutions to the Cases in Engineering
 Economy, 2E, text available on Oxford's
 Ancillary Resource Center. Please contact
 your Oxford University Press sales
 representative for access. * Two
 PowerPoint-based lecture resources: Fully
 customizable PowerPoint-based lecture
 outlines, ready for immediate use or
 modification, and slides of every figure
 and table in the text * Learning
 Management System support: Most of the
 electronic ancillaries are available as pre-
 formatted cartridges for upload into a
 learning management system Instructor
 Support Package available to adopters of
 the twelfth edition (not included with book,
 available separately) STUDENT SUPPORT
 PACKAGE * Free casebook: In-text CD
 includes Cases in Engineering Economy,
 2E, a collection of fifty-four case studies
 designed to help students apply the
 theories and concepts of engineering
 economy to real-world situations * Study
 Guide: Packaged with every copy of the
 student text; contains practice questions
 with detailed solutions for every chapter in
 the text * Companion Website
 (www.oup.com/us/newnan) featuring: *
 100 additional sample FE exam problems *
 Interactive tutorial questions for many
 chapters * Video tutorials for Microsoft
 Excel, explaining how to use Excel to work
 specific financial calculations * Updated
 interactive spreadsheet models Student
 Support Package available to adopters of
 the twelfth edition (not included with book,
 available separately)

*How Crowdmasters, Phreaks, Hackers, and
 Trolls Created a New Form of Manipulative
 Communication* MIT Press

Environmental and Natural Resource
 Economics is the best-selling text for
 natural resource economics and
 environmental economics courses, offering
 a policy-oriented approach and introducing

economic theory and empirical work from
 the field. Students will leave the course
 with a global perspective of both
 environmental and natural resource
 economics and how they interact.
 Complemented by a number of case
 studies showing how underlying economic
 principles provided the foundation for
 specific environmental and resource
 policies, this key text highlights what can
 be learned from the actual experience.
 This new, 11th edition includes updated
 data, a number of new studies and brings
 a more international focus to the subject.
 Key features include: Extensive coverage
 of the major issues including climate
 change, air and water pollution,
 sustainable development, and
 environmental justice. Dedicated chapters
 on a full range of resources including
 water, land, forests, fisheries, and
 recyclables. Introductions to the theory
 and method of environmental economics
 including externalities, benefit-cost
 analysis, valuation methods, and
 ecosystem goods and services. Boxed
 'Examples' and 'Debates' throughout the
 text which highlight global examples and
 major talking points. The text is fully
 supported with end-of-chapter summaries,
 discussion questions, and self-test
 exercises in the book and multiple-choice
 questions, simulations, references, slides,
 and an instructor's manual on the
 Companion Website.

**The Analysis of Scarcity, Policies, and
 Projects** Oxford University Press

Comprehensive and truly accessible,
 Technical Communication guides students
 through planning, drafting, and designing
 the documents that will matter in their
 professional lives. Known for his student-
 friendly voice and eye for technology
 trends, Mike Markel addresses the realities
 of the digital workplace through fresh
 samples and cases, practical writing
 advice, and a companion Web site —
 TechComm Web — that continues to set
 the standard with content developed and
 maintained by the author. The text is also
 available in a convenient, affordable e-
 book format.

Technical Communication Mit Press

A comprehensive textbook that integrates
 tools from technology, economics,
 markets, and policy to approach energy
 issues using a dynamic systems and
 capital-centric perspective. The global
 energy system is the vital foundation of
 modern human industrial society.
 Traditionally studied through separate
 disciplines of engineering, economics,
 environment, or public policy, this system
 can be fully understood only by using an
 approach that integrates these tools. This

textbook is the first to take a dynamic systems perspective on understanding energy systems, tracking energy from primary resource to final energy services through a long and capital-intensive supply chain bounded by both macroeconomic and natural resource systems. The book begins with a framework for understanding how energy is transformed as it moves through the system with the aid of various types of capital, its movement influenced by a combination of the technical, market, and policy conditions at the time. It then examines the three primary energy subsystems of electricity, transportation, and thermal energy, explaining such relevant topics as systems thinking, cost estimation, capital formation, market design, and policy tools. Finally, the book reintegrates these subsystems and looks at their relation to the economic system and the ecosystem that they inhabit. Practitioners and theorists from any field will benefit from a deeper understanding of both existing dynamic energy system processes and potential tools for intervention.

Introduction to Static Analysis MIT Press
Statistics and Probability for Engineering Applications provides a complete discussion of all the major topics typically covered in a college engineering statistics course. This textbook minimizes the derivations and mathematical theory, focusing instead on the information and techniques most needed and used in engineering applications. It is filled with practical techniques directly applicable on the job. Written by an experienced industry engineer and statistics professor, this book makes learning statistical methods easier for today's student. This book can be read sequentially like a normal textbook, but it is designed to be used as a handbook, pointing the reader to the topics and sections pertinent to a particular type of statistical problem. Each new concept is clearly and briefly described, whenever possible by relating it to previous topics. Then the student is given carefully chosen examples to deepen understanding of the basic ideas and how they are applied in engineering. The examples and case studies are taken from real-world engineering problems and use real data. A number of practice problems are provided for each section, with answers in the back for selected problems. This book will appeal to engineers in the entire engineering spectrum (electronics/electrical, mechanical, chemical, and civil engineering); engineering students and students taking computer

science/computer engineering graduate courses; scientists needing to use applied statistical methods; and engineering technicians and technologists. * Filled with practical techniques directly applicable on the job * Contains hundreds of solved problems and case studies, using real data sets * Avoids unnecessary theory
Canadian Edition Butterworth-Heinemann
 A self-contained introduction to abstract interpretation-based static analysis, an essential resource for students, developers, and users. Static program analysis, or static analysis, aims to discover semantic properties of programs without running them. It plays an important role in all phases of development, including verification of specifications and programs, the synthesis of optimized code, and the refactoring and maintenance of software applications. This book offers a self-contained introduction to static analysis, covering the basics of both theoretical foundations and practical considerations in the use of static analysis tools. By offering a quick and comprehensive introduction for nonspecialists, the book fills a notable gap in the literature, which until now has consisted largely of scientific articles on advanced topics. The text covers the mathematical foundations of static analysis, including semantics, semantic abstraction, and computation of program invariants; more advanced notions and techniques, including techniques for enhancing the cost-accuracy balance of analysis and abstractions for advanced programming features and answering a wide range of semantic questions; and techniques for implementing and using static analysis tools. It begins with background information and an intuitive and informal introduction to the main static analysis principles and techniques. It then formalizes the scientific foundations of program analysis techniques, considers practical aspects of implementation, and presents more advanced applications. The book can be used as a textbook in advanced undergraduate and graduate courses in static analysis and program verification, and as a reference for users, developers, and experts.
Theory and Application to Travel Demand Oxford University Press, USA
 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 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 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.
Principles of Engineering Economic Analysis John Wiley & Sons
 For one-semester courses in labor economics at the undergraduate and graduate levels, this book provides an overview of labor market behavior that emphasizes how theory drives public policy. Modern Labor Economics: Theory and Public Policy, Twelfth Edition gives students a thorough overview of the modern theory of labor market behavior, and reveals how this theory is used to analyze public policy. Designed for students who may not have extensive backgrounds in economics, the text balances theoretical coverage with examples of practical applications that allow students to see concepts in action. Experienced educators for nearly four decades, co-authors Ronald Ehrenberg and Robert Smith believe that showing students the social implications of the concepts discussed in the course will enhance their motivation to learn. As such, the text presents numerous examples of policy decisions that have been affected by the ever-shifting labor market. This text provides a better teaching and learning experience for you and your students. It will help you to: Demonstrate concepts through relevant, contemporary examples: Concepts are brought to life through analysis of hot-button issues such as immigration and return on investment in education. Address the Great Recession of 2008: Coverage of the current economic climate helps students place course

material in a relevant context. Help students understand scientific methodology: The text introduces basic methodological techniques and problems, which are essential to understanding the field. Provide tools for review and further study: A series of helpful in-text features highlights important concepts and helps students review what they have learned. *Cases in Engineering Economy* Routledge Project economic analysis is a tool used by the Asian Development Bank (ADB) to ensure that ADB operations comply with its Charter. The guidelines in this publication are a revised version of the 1997 edition. The revision responds to the changing development context and ADB operational priorities, and aims to address the recommendations of the ADB Quality-at-Entry Assessments for more methodological work on project economic analysis. The revised guidelines provide general principles for the conduct of project economic analysis, and should be read together with handbooks, technical reports, and other reference materials published by ADB dealing with sector-specific project economic analysis in detail.

Statistics and Probability for Engineering Applications Elsevier

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. 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 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 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 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 and Overhead Transparencies. Available free in electronic format to adopting professors. Call 1-800-280-0280 or send an email to college@oup-usa.org. . Student's Quick Study Guide: Engineering Economic Analysis. This 320-page book features a 32-page summary of engineering economy, followed by 386 problems, each with detailed solutions. Available for purchase only. (ISBN 1-57645-050-3) "

Forecasting: principles and practice Prentice Hall

An optimistic--but realistic and feasible--action plan for fighting climate change while creating new jobs and a healthier environment: electrify everything. Climate change is a planetary emergency. We have to do something now—but what? Saul Griffith has a plan. In *Electrify*, Griffith lays out a detailed blueprint—optimistic but feasible—for fighting climate change while creating millions of new jobs and a healthier environment. Griffith's plan can be summed up simply: electrify everything. He explains exactly what it would take to transform our infrastructure, update our grid, and adapt our households to make this possible. Billionaires may contemplate escaping our worn-out planet on a private rocket ship to Mars, but the rest of us, Griffith says, will stay and fight for the future. Griffith, an engineer and inventor, calls for grid neutrality, ensuring that households, businesses, and utilities operate as equals; we will have to rewrite regulations that were created for a fossil-fueled world, mobilize industry as we did in World War II, and offer low-interest "climate loans." Griffith's plan doesn't rely

on big, not-yet-invented innovations, but on thousands of little inventions and cost reductions. We can still have our cars and our houses—but the cars will be electric and solar panels will cover our roofs. For a world trying to bounce back from a pandemic and economic crisis, there is no other project that would create as many jobs—up to twenty-five million, according to one economic analysis. Is this politically possible? We can change politics along with everything else.

Parts A, B and C Asian Development Bank Mechanical Engineer's Reference Book, 12th Edition is a 19-chapter text that covers the basic principles of mechanical engineering. The first chapters discuss the principles of mechanical engineering, electrical and electronics, microprocessors, instrumentation, and control. The succeeding chapters deal with the applications of computers and computer-integrated engineering systems; the design standards; and materials' properties and selection. Considerable chapters are devoted to other basic knowledge in mechanical engineering, including solid mechanics, tribology, power units and transmission, fuels and combustion, and alternative energy sources. The remaining chapters explore other engineering fields related to mechanical engineering, including nuclear, offshore, and plant engineering. These chapters also cover the topics of manufacturing methods, engineering mathematics, health and safety, and units of measurements. This book will be of great value to mechanical engineers.

Solution Manual for Engineering Economic Analysis MIT Press

A guide to using the power of design flexibility to improve the performance of complex technological projects, for designers, managers, users, and analysts. Project teams can improve results by recognizing that the future is inevitably uncertain and that by creating flexible designs they can adapt to eventualities. This approach enables them to take advantage of new opportunities and avoid harmful losses. Designers of complex, long-lasting projects—such as communication networks, power plants, or hospitals—must learn to abandon fixed specifications and narrow forecasts. They need to avoid the "flaw of averages," the conceptual pitfall that traps so many designs in underperformance. Failure to allow for changing circumstances risks leaving significant value untapped. This book is a guide for creating and implementing value-enhancing flexibility in design. It will be an essential resource for all participants in the development and

operation of technological systems: designers, managers, financial analysts, investors, regulators, and academics. The book provides a high-level overview of why flexibility in design is needed to deliver significantly increased value. It describes in detail methods to identify, select, and implement useful flexibility. The book is unique in that it explicitly recognizes that future outcomes are uncertain. It thus presents forecasting, analysis, and evaluation tools especially suited to this reality. Appendixes provide expanded explanations of concepts and analytic tools.

Systems Thinking Applied to Safety
MIT Press

Updated edition of a comprehensive introduction to the economics of water management, with self-contained treatment of all necessary economic concepts. Economics brings powerful insights to water management, but most water professionals receive limited training in it. The second edition of this text offers a comprehensive development of water resource economics that is accessible to engineers and natural scientists as well as to economists. The goal is to build a practical platform for understanding and performing economic analysis using both theoretical and empirical tools. Familiarity with microeconomics or natural resource economics is helpful, but all the economics needed is presented and developed progressively in the text. The book focuses on the scarcity of water quantity (rather than on water quality). The author presents the economic theory of resource allocation, recognizing the peculiarities imposed by water, and then goes on to treat a range of subjects including conservation, groundwater depletion, water law, policy analysis, cost-benefit analysis, water marketing, privatization, and demand and supply estimation. Added features of this updated edition include a new chapter on water scarcity risk (with climate change and necessary risk tools introduced progressively) and new risk-attentive material elsewhere in the text; sharper treatment of block rates and

pricing doctrine; expanded attention to contemporary literature and issues; and new appendixes on input-output analysis, water footprinting and virtual water, and cost allocation. Each chapter ends with a summary and exercises.

A Systems Approach to Planning, Scheduling, and Controlling OTexts

The landmark project management reference, now in a new edition Now in a Tenth Edition, this industry-leading project management "bible" aligns its streamlined approach to the latest release of the Project Management Institute's Project Management Body of Knowledge (PMI®'s PMBOK® Guide), the new mandatory source of training for the Project Management Professional (PMP®) Certification Exam. This outstanding edition gives students and professionals a profound understanding of project management with insights from one of the best-known and respected authorities on the subject. From the intricate framework of organizational behavior and structure that can determine project success to the planning, scheduling, and controlling processes vital to effective project management, the new edition thoroughly covers every key component of the subject. This Tenth Edition features: New sections on scope changes, exiting a project, collective belief, and managing virtual teams More than twenty-five case studies, including a new case on the Iridium Project covering all aspects of project management 400 discussion questions More than 125 multiple-choice questions (PMI, PMBOK, PMP, and Project Management Professional are registered marks of the Project Management Institute, Inc.)

Engineering Economy MIT Press

This text maintains a problem and policy oriented approach to development economics. It focuses on people and government in developing countries. *Definitions, Theorems, and Formulas for Reference and Review* MIT Press
Manipulative communication—from early twentieth-century propaganda to today's online con artistry—examined through the

lens of social engineering. The United States is awash in manipulated information about everything from election results to the effectiveness of medical treatments. Corporate social media is an especially good channel for manipulative communication, with Facebook a particularly willing vehicle for it. In *Social Engineering*, Robert Gehl and Sean Lawson show that online misinformation has its roots in earlier techniques: mass social engineering of the early twentieth century and interpersonal hacker social engineering of the 1970s, converging today into what they call "masspersonal social engineering." As Gehl and Lawson trace contemporary manipulative communication back to earlier forms of social engineering, possibilities for amelioration become clearer. The authors show how specific manipulative communication practices are a mixture of information gathering, deception, and truth-indifferent statements, all with the instrumental goal of getting people to take actions the social engineer wants them to. Yet the term "fake news," they claim, reduces everything to a true/false binary that fails to encompass the complexity of manipulative communication or to map onto many of its practices. They pay special attention to concepts and terms used by hacker social engineers, including the hacker concept of "bullshitting," which the authors describe as a truth-indifferent mix of deception, accuracy, and sociability. They conclude with recommendations for how society can undermine masspersonal social engineering and move toward healthier democratic deliberation.

Fundamentals of Transportation Systems Analysis Princeton University Press

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