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# **Engineering Economy 15th Edition**

"This book begins by teaching managers the practical utility of basic economic tools such as present value analysis, supply and demand, regression, indifference curves, isoquants, production, costs, and the basic models of perfect competition, monopoly, and monopolistic competition. Adopters and reviewers also praise the book for its real-world examples and because it includes modern topics not contained in any other

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single managerial economics textbook: oligopoly, penetration pricing, multistage and repeated games, foreclosure, contracting, vertical and horizontal integration, networks, bargaining, predatory pricing, -principal-agent problems, raising rivals' costs, adverse selection, auctions, screening and signaling, search, limit pricing, and a host of other pricing strategies for firms enjoying market power. This balanced coverage of traditional and modern microeconomic tools makes it appropriate for a wide variety of managerial economics classrooms. An increasing

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number of business schools are adopting this book to replace (or use alongside) managerial strategy texts laden with anecdotes but lacking the microeconomic tools needed to identify and implement the business strategies that are optimal in a given situation"--

In the Guide to the Software Engineering Body of Knowledge (SWEBOK(R) Guide), the IEEE Computer Society establishes a baseline for the body of knowledge for the field of software engineering, and the work supports the Society's responsibility to promote the advancement of both theory and

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practice in this field. It should be noted that the Guide does not purport to define the body of knowledge but rather to serve as a compendium and guide to the knowledge that has been developing and evolving over the past four decades. Now in Version 3.0, the Guide's 15 knowledge areas summarize generally accepted topics and list references for detailed information. The editors for Version 3.0 of the SWEBOK(R) Guide are Pierre Bourque (Ecole de technologie superieure (ETS), Universite du Quebec) and Richard E. (Dick) Fairley (Software and Systems

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Engineering Associates (S2EA)).  
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while developing the capacity to professionally address the differential learning and transition needs of culturally and linguistically diverse (CLD) students. Ideal for pre- and in-service teachers, district and building administrators, school specialists, and paraprofessionals, it presents the latest tools, procedures, strategies, and ideas for ensuring effective teaching and learning for students of any native language. Included are new ways to reach and maximize relationships with parents, caregivers, and extended family members by partnering with

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them in appropriate pedagogical practices. The new Third Edition of Mastering ESL/EF Methods includes illustrated concepts; global connections; tips for practice in the EFL classroom; a revised framework for the conceptual definitions of approach method, strategy, and technique; an expanded Glossary; interactive video links; a revised discussion of dual language programs; and an overview of program model effectiveness. The Enhanced Pearson eText features embedded videos. Improve mastery and retention with the Enhanced Pearson eText\* The

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engineering, this invaluable resource by renowned authors in the field of geotechnical engineering provides an ideal balance of today's most current research and practical field applications. A wealth of worked-out examples and figures clearly illustrate the work of today's civil engineer, while timely information and insights help readers develop the critical skills needed to properly apply theories and analysis while evaluating soils and foundation design. Important Notice: Media content referenced within the product description or the product text may not be available

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First published in 1945, this book maintains its original aims - to reflect the state-of-the-art in electrical science and technology, and to cater for the needs of practising engineers.

Accompanying CD-ROM

contains ... "data files, Web

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links, practice quizzes, PowerPoint, video clips, software tutorials, MegaStat for Excel software and user manual."--Page 4 of cover. Reviews basic economic concepts, including compound interest, equivalence, present worth, rate of return, depreciation, and cost-benefit ratios

For Introduction to Soils or Fundamentals of Soil Science courses. Also for courses in Soil Fertility, Forest Soils, Soil Management, Land Resources, Earth Science, and Soil Geography. Developed for Introduction to Soils or Soil

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Science courses, *The Nature and Properties of Soils*, 14e can be used in courses such as *Soil Fertility*, *Land Resources*, *Earth Science and Soil Geography*. Now in its 14th edition, this text is designed to help make students study of soils a fascinating and intellectually satisfying experience. Written for both majors and non-majors, this text highlights the many interactions between the soil and other components of forest, range, agricultural, wetland and constructed ecosystems.

Advances in Mechanism and

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15th International Conference,

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Vegas, NV, USA, July 15-20,

2018, Proceedings

ENGINEERING ECONOMICS

"Completely revised and  
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edition includes new

chapters on creating green

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lighting. Written by three of

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the most respected energy professionals in the industry, this book examines the fundamental objectives of energy management and illustrates techniques and tools proven effective for achieving results. Topics include distributed generation, energy auditing, rate structures, and economic evaluation techniques as well as lighting efficiency improvement, HVAC optimization, combustion and use of industrial wastes, and steam generation and distribution system



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performance."--Publisher description.

This book aims to cover all aspects of teaching engineering and other technical subjects. It presents both practical matters and educational theories in a format that will be useful for both new and experienced teachers.

The present volume aims at outlining a new field of research with regard to the history of diplomacy: the material culture of diplomatic interaction in early modern and modern times. The material culture

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of diplomacy includes all practices in foreign policy communication in which single artifacts, samples of artifacts, or else the whole material setting of diplomatic interaction is supposed to be constitutive for creating an intended effect in terms of diplomatic objectives. The chapters of this volume focus on intercultural diplomacy in different regions of the world wherein diplomatic actors of various kinds might have been confronted by a whole universe of unfamiliar artifacts and artifact-related

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practices. Most of them concentrate on gift giving as a diplomatic practice that offers multiple insights in the complex dynamics of diplomatic relations between representatives of culturally highly diverse political entities. In doing so, they gainfully apply different theoretical approaches of material culture as an interdisciplinary field of study to the investigation of diplomatic cultures across the globe. As a result, it becomes obvious that future research into the history of diplomacy should take into

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account material practices much more thoroughly than has been done before.

Designed as a textbook for undergraduate students in various engineering disciplines—Mechanical, Civil, Industrial Engineering, Electronics Engineer-ing and Computer Science—and for postgraduate students in Industrial Engineering and Water Resource Management, this comprehensive and well-organized book, now in its Second Edition, shows how complex economic decisions can be made from a number

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of given alternatives. It provides the managers not only a sound basis but also a clear-cut approach to making decisions. These decisions will ultimately result in minimizing costs and/or maximizing benefits. What is more, the book adequately illustrates the concepts with numerical problems and Indian cases. While retaining all the chapters of the previous edition, the book adds a number of topics to make it more comprehensive and more student friendly.

What's New to This Edition •  
Discusses different types of

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costs such as average cost, recurring cost, and life cycle cost. • Deals with different types of cost estimating models, index numbers and capital allowance. • Covers the basics of nondeterministic decision making. • Describes the meaning of cash flows with probability distributions and decision making, and selection of alternatives using simulation. • Discusses the basic concepts of Accounting. This book, which is profusely illustrated with worked-out examples and a number of diagrams and

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tables, should prove extremely useful not only as a text but also as a reference for those offering courses in such areas as Project Management, Production Management, and Financial Management.

Version 3.0

Acca - F9 Financial  
Management

Proceedings of the 15th  
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Mechanism and Machine  
Science

Financial Decision Making for  
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Systems Life Cycle Costing

This student-friendly text on the

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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 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



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problems that prepare the students for the Fundamentals of Engineering (FE) exam. This 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 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 margin throughout the text. While the chapters are progressive, over

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three-quarters can stand alone, allowing instructors flexibility for meeting course needs. A complete online learning center (OLC) offers supplemental practice problems, spreadsheet exercises, and review questions for the the Fundamentals of Engineering (FE) exam.

In the present text the author deals with both conventional and new approaches to trade theory and policy, treating all important research topics in international economics and clarifying their mathematical intricacies. The textbook is intended for undergraduates, graduates and researchers alike. It addresses undergraduate students with extremely clear language and illustrations, making even the most

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complex trade models accessible. In the appendices, graduate students and researchers will find self-contained treatments in mathematical terms. The new edition has been thoroughly revised and updated to reflect the latest research on international trade.

Engineering Economy  
Engineering Economy  
Prentice Hall

Get a complete look into modern traffic engineering solutions  
Traffic Engineering Handbook,  
Seventh Edition is a newly revised text that builds upon the reputation as the go-to source of essential traffic engineering solutions that this book has maintained for the past 70 years. The updated content reflects changes in key industry standards, and shines a

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spotlight on the needs of all users, the design of context-sensitive roadways, and the development of more sustainable transportation solutions. Additionally, this resource features a new organizational structure that promotes a more functionally-driven, multimodal approach to planning, designing, and implementing transportation solutions. A branch of civil engineering, traffic engineering concerns the safe and efficient movement of people and goods along roadways. Traffic flow, road geometry, sidewalks, crosswalks, cycle facilities, shared lane markings, traffic signs, traffic lights, and more—all of these elements must be considered when designing public and private sector

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transportation solutions. Explore the fundamental concepts of traffic engineering as they relate to operation, design, and management. Access updated content that reflects changes in key industry-leading resources, such as the Highway Capacity Manual (HCM), Manual on Uniform Traffic Control Devices (MUTCD), AASHTO Policy on Geometric Design, Highway Safety Manual (HSM), and Americans with Disabilities Act. Understand the current state of the traffic engineering field. Leverage revised information that homes in on the key topics most relevant to traffic engineering in today's world, such as context-sensitive roadways and sustainable transportation solutions. Traffic Engineering Handbook, Seventh

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Edition is an essential text for public and private sector transportation practitioners, transportation decision makers, public officials, and even upper-level undergraduate and graduate students who are studying transportation engineering.

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***Engineering Economy is***

***intended to serve as a***

***text for classroom***

***instruction in***

***undergraduate,***

***introductory courses in***

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*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*

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*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*



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*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.*

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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

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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.*

*The Managing Change is to introduce the tools, techniques and methodologies, deemed appropriate to identifying, documenting and otherwise managing change that have been identified as being "best tested and proven" practices and which have*

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*been found to work on  
“most projects, most of  
the time”; provide a  
logical or rational  
sequence showing when  
those tools or  
techniques would  
normally and customarily  
be used and in selected  
instances, show how to  
use those  
tools/techniques and/or  
where to find additional  
information on how to  
use or apply them.  
This book gathers the  
proceedings of the 15th  
IFTOMM World Congress,  
which was held in*

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*Krakow, Poland, from  
June 30 to July 4, 2019.  
Having been organized  
every four years since  
1965, the Congress  
represents the world's  
largest scientific event  
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science (MMS). The  
contributions cover an  
extremely diverse range  
of topics, including  
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engineering,  
computational  
kinematics, design  
methodologies, dynamics  
of machinery, multibody  
dynamics, gearing and*



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*transmissions, history of MMS, linkage and mechanical controls, robotics and mechatronics, micro-mechanisms, reliability of machines and mechanisms, rotor dynamics, standardization of terminology, sustainable energy systems, transportation machinery, tribology and vibration. Selected by means of a rigorous international peer-review process, they highlight numerous*

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*exciting advances and  
ideas that will spur  
novel research  
directions and foster  
new multidisciplinary  
collaborations.*

*Medical Insurance  
Engineering Psychology  
and Cognitive Ergonomics*

*Proceedings of the 15th  
ICOLD International  
Benchmark Workshop*

*The Macroeconomy Today*

***This book constitutes  
revised selected papers  
from the 15th International  
Conference on Informatics in  
Economy, IE 2016, held in***

***Cluj-Napoca, Romania, in June 2016. The 10 full papers and 4 short papers presented in this volume were carefully reviewed and selected from 31 extended paper submissions for this book. They are organized in sections on Distributed Systems, Information Systems Adoption, Knowledge Representation and Processing, Domain-specific Data Analysis, and Computational Models. The volume also contains one invited keynote paper in full-paper length.***

***Chemical Engineering***

***Design, Second Edition, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing,***

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***and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting***

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***instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are***

***flowsheet development, economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. New discussion of conceptual plant design, flowsheet development and revamp design Significantly increased coverage of capital cost estimation, process costing and***

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***economics New chapters on equipment selection, reactor design and solids handling processes New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography Increased coverage of batch processing, food, pharmaceutical and biological processes All equipment chapters in Part II revised and updated with current information Updated throughout for latest US codes and standards, including API, ASME and ISA design codes and ANSI***



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**standards Additional worked examples and homework problems The most complete and up to date coverage of equipment selection 108 realistic commercial design projects from diverse industries A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website Extensive instructor resources: 1170 lecture**

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***slides plus fully worked solutions manual available to adopting instructors***  
***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.***

***In most cases of civil engineering development, a range of alternative schemes meeting project goals are***

***feasible, so some form of evaluation must be carried out to select the most appropriate to take forward. Evaluation criteria usually include the economic, environmental and social contexts of a project as well as the engineering challenges, so engineers must be familiar with the processes and tools used. The second edition of Engineering Project Appraisal equips students with the understanding and analytical tools to carry out effective appraisals of alternative development***

**schemes, using both economic and non-economic criteria. The building blocks of economic appraisal are covered early, leading to techniques such as net present worth, internal rate of return and annual worth. Cost Benefit Analysis is dealt with in detail, together with related methods such as Cost Effectiveness and the Goal Achievement Matrix. The text also details three multi-criteria models which have proved useful in the evaluation of proposals in the transportation, solid**

**waste, energy and water resources fields: the Simple Additive Weighting (SAW) Model, the Analytic Hierarchy Process (AHP) technique and Concordance Analysis. There is a full discussion dealing with risk and uncertainty in these models. With many worked examples and case studies, Engineering Project Appraisal is an essential text for both undergraduate and postgraduate students on professional civil engineering courses, and it is expected that students on planning and construction**

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**management courses will  
find it a valuable addition  
to their reading.**

**Introduction to Management  
Accounting Myaccountinglab  
Access Code**

**Integrated Principles of  
Zoology**

**Material Culture in Modern  
Diplomacy from the 15th to  
the 20th Century**

**Second Edition**

**Engineering Economics**

*This book gathers contributions from  
the 15th ICOLD Benchmark  
Workshop on Numerical Analysis of  
Dams. The workshop provided an  
opportunity for engineers,  
researchers and operators to present  
and exchange their experiences and*

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*the latest advances in numerical modelling in the context of the design, performance and monitoring of dams. Covering various aspects of computer analysis tools and safety assessment criteria, and their development over recent decades, the book is a valuable reference resource for those in the engineering community involved in the safety, planning, design, construction, operation and maintenance of dams. This book contains research papers that were accepted for presentation at the 15th International Conference on Interdisciplinarity in Engineering—INTER-ENG 2021, which was held on October 7-8, 2021, in the city of Târgu Mureș, Romania. The general scope of the conference “Innovative aspects of Industry 4.0 concepts aimed at*



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*consolidating the digital future of manufacturing in companies” is proposing a new approach related to the development of a new generation of smart factories grounded on the manufacturing and assembly process digitalization. It is related to advance manufacturing technology, lean manufacturing, sustainable manufacturing, additive manufacturing, and manufacturing tools and equipment. It is a leading international professional and scientific forum of great interest for engineers and scientists who can read in this book research works contributions and recent developments as well as current practices in advanced fields of engineering.*

*The new edition of a bestseller, this book is one of the leading*

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*educational resources for energy manager or energy professional as well as new people enter the field of energy management and energy engineering. It is the most widely used college and university textbook, as well as one of the most widely used books for professional development training. New topics include energy auditing, energy bills, life cycle costing, electrical distribution systems, boilers, steam distribution systems, control systems and computers, energy systems maintenance, insulation, compressed air, renewable energy sources and water management, distributed generation, and creating green buildings.*

*Although technology and productivity has changed much of engineering, many topics are still taught in very*

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*similarly to how they were taught in the 70s. Using a new approach to engineering economics, Systems Life Cycle Costing: Economic Analysis, Estimation, and Management presents the material that a modern engineer must understand to work as a practicing engineer conducting economic analysis. Organized around a product development process that provides a framework for the material, the book presents techniques such as engineering economics and simulation-based costing (SBC), with a focus on total life cycle understanding and perspective and introduces techniques for detailed analysis of modern complex systems. The author includes rules of thumb for estimation grouped with the methods, processes, and tools*

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*(MPTs) for conducting a detailed engineering buildup for costing. He presents the estimating costing of complex systems and software and then explores concepts such as design to cost (DTC), cost as an independent variable (CAIV), the role of commercial off-the-shelf technology, cost of quality, and the role of project management in LCC management. No product or services are immune from cost, performance, schedule, quality, risks, and tradeoffs. Yet engineers spend most of their formal education focused on performance and most of their professional careers worrying about resources and schedule. Too often, the design stage becomes about the technical performance without considering the downstream costs that contribute to the total life cycle*

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*costs (LCC) of a system. This text presents the methods, processes, and tools needed for the economic analysis, estimation, and management that bring these costs in line with the goals of pleasing the customer and staying within budget.*

*Engineering Project Appraisal*

*Plant Pathology*

*Chemical Engineering Design*

*Informatics in Economy*

*15th International Conference, IE*

*2016, Cluj-Napoca, Romania, June*

*2-3, 2016, Revised Selected Papers*

*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,*

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*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-*

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*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*

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*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*



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*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)*

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*In the Fourteenth Edition of The Middle East, Ellen Lust brings important new coverage to this comprehensive, balanced, and superbly researched text. In clear prose, Lust and her outstanding contributors explain the many complex changes taking place across the region. New to this edition is a country profile chapter on Sudan by Fareed Hassan. All country chapters now address domestic and regional conflict more explicitly, and all tables, figures, boxes, and maps have been fully updated with the most recent data and information. This fifth edition of the classic textbook in plant pathology outlines how to recognize, treat,*

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*and prevent plant diseases. It provides extensive coverage of abiotic, fungal, viral, bacterial, nematode and other plant diseases and their associated epidemiology. It also covers the genetics of resistance and modern management on plant disease. Plant Pathology, Fifth Edition, is the most comprehensive resource and textbook that professionals, faculty and students can consult for well-organized, essential information. This thoroughly revised edition is 45% larger, covering new discoveries and developments in plant pathology and enhanced by hundreds of new color photographs and illustrations. The latest information*

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*on molecular techniques and biological control in plant diseases*  
*Comprehensive in coverage*  
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