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*An easy-to-follow contemporary
engineering economics text that helps*

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making sound economic decisions without advanced mathematics. This one-semester introduction to the fundamentals of engineering economics provides an overview of the basic theory and mathematics underlying operational business

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decisions that engineering technology, engineering, and industrial technology students will face in the workplace. A basic knowledge of economics empowers a manager to balance costs with production. This new edition of Fundamentals of

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Economics for Engineering Technologists and Engineers is written in plain language. Concepts have been simplified and kept straightforward with an emphasis on "how to apply" economic principles. Practical examples as a tool for

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managing business data and giving detailed analysis of business operations. throughout the text make good use of Microsoft Excel templates, provided on the book's companion website, for students. Chapter-end exercises provide

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discussion and multiple-choice questions along with numerical problems, and a solutions manual and instructor resources is given for adopting instructors.

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engineers and architects who need to understand the economic impact of architecture design decisions: the long term and strategic viability, cost-effectiveness, and sustainability of applications and systems. Economics-driven software development can

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increase quality, productivity, and profitability, but comprehensive knowledge is needed to understand the architectural challenges involved in dealing with the development of large, architecturally challenging systems in an economic way. This

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book covers how to apply economic considerations during the software architecting activities of a project. Architecture-centric approaches to development and systematic evolution, where managing complexity, cost reduction, risk mitigation, evolvability,

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strategic planning and long-term value creation are among the major drivers for adopting such approaches. It assists the objective assessment of the lifetime costs and benefits of evolving systems, and the identification of legacy situations,

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where architecture or a component is indispensable but can no longer be evolved to meet changing needs at economic cost. Such consideration will form the scientific foundation for reasoning about the economics of nonfunctional requirements in the

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*context of architectures and
architecting. Familiarizes readers
with essential considerations in
economic-informed and value-driven
software design and analysis
Introduces techniques for making
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decisions Provides readers a better understanding of the methods of economics-driven architecting Purposeful Engineering Economics stands as a unique and highly original complement to the traditional engineering economics curriculum.

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This primarily narrative text conveys the essence of an "Austrian" economic perspective on cash flow analysis and decision making in engineering without extensive tables and graphs and requires very little mathematics. The book's objective is

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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

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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

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*price signals to coordinate
engineering plans.*

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of engineering statistics are covered, including descriptive statistics, probability and probability distributions, statistical test and confidence intervals for one and two samples, building regression models, designing and analyzing

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engineering experiments, and statistical process control.

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from numerous adopters of previous editions.

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

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useful for both new and
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systems. This book outlines a sequence of steps, which if properly executed yield an improved design of the system. This book deals first with the

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development of the
necessary background in
probability theory and
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These topics are
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models and how these simple models can be applied in more complex situations. The subsequent chapters survey the development of prescriptive models

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of queueing systems; the principles of transient analysis; and the modeling techniques for use in analyzing more complex queueing systems. The discussion

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then shifts to the design of data collection systems and the analysis of data. The last chapter focuses on the development of simulation models.

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Construction Project Management deals with different facets of construction management emphasizing the basic concepts that any engineering student is

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approach to
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development and
programming, which can
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optimize their investment choices. The authors present a proven set of methodologies for evaluating transportation projects that ensures that all

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costs and impacts are taken into consideration. The text's logical organization gets readers started with a solid foundation in

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basic principles and
then progressively
buildson that
foundation. Topics
covered include:
Developing performance
measures for evaluation,

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estimating travel demand,
and costing

transportation projects

Performing an economic
efficiency evaluation

that accounts for such

factors as travel time,

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safety, and vehicle
operating costs

Evaluating a project's
impact on economic
development and land use
as well as its impact on
society and culture

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Assessing a project's environmental impact, including airquality, noise, ecology, water resources, and aesthetics Evaluating alternative projects on

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the basis of
multiple performance
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transportation
investments so that
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basic definitions and
concepts followed by a
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legislation is discussed
and available software
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evaluations is presented.
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detailed investigation of particular topics. These include Internet sites and publications of international and domestic agencies and research institutions.

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The authors also provide a companion Web site that offers updates, data for analysis, and case histories of project evaluation and decisionmaking. Given

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that billions of dollars are spent each year on transportation systems in the United States alone, and that there is a need for thorough and rational evaluation and

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decision making for cost-effective system preservation and improvement, this text should be on the desks of all transportation planners,

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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 tables, should prove extremely useful not only as a text but also as a reference for those offering courses in

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the first World power

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This book emphasizes the

concepts and techniques of

analysis that prove useful

in evaluating the economic

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systems, projects, and services for decision purposes. It also familiarizes the engineer with operations and operational feasibility necessary to

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considerations of the design process. KEY TOPICS: Chapter topics cover economic and cost concepts; interest formula; calculations of economic equivalence;

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*equivalence involving
inflation; bases for
comparison and decision-
making among alternatives;
evaluating production
operations and replacement
alternatives; accounting;*

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income taxes in economic analysis; decisions under risk and uncertainty and involving multiple criteria; and estimating economic elements. For a basic understanding of

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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 text provides

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air toxics, hazardous wastes, and other related topics. It provides environmental professionals with the education not only to understand the nuts and bolts of economic analysis but also to conduct economic analyses. Throughout the book, the author joins economics and environmental practice with common-

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sense approaches and practical real-world examples. Designed to stimulate thought, the book explores strategies for maintaining a safe environment without excessive regulation and cost. With the information in this book, environmental professionals will have an understanding of the framework in which environmental

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problems exist, what they cost, how to pay for them, and what the payback is (if any).

The Publishers' Trade List Annual

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previous "Environmental Engineer's Mathematics Handbook," this book offers readers an unusual approach to presenting environmental math concepts, emphasizing the relationship between the principles in natural processes

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and environmental processes. It integrates the fundamental math operations performed by environmental practitioners for air, water, wastewater, solid/hazardous wastes, biosolids, environmental economics, stormwater

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operations, and environmental health, safety, and welfare. New material includes quadratic equations, Quadratic equations, Boolean algebra, statistics review, fundamental fire science, basic electricity for environmental practitioners, and

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business and transformational
strategies, change management,
legislation, organisational
learning, software design,**

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innovation and biomimetics. This book is particularly novel and timely, as it brings together a number of cogent subjects under one collective 'umbrella'. Each of these chapters contain original findings, all of which culminate in three 'Key Learning Points' which

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**through to technical topics,
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and processes, circularity and**

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platforms and customisability,**

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construction management emphasizing the basic concepts that any engineering student is supposed to know. The major principles of project management have

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been derived through real life case studies from the field. Simplified examples have been used to facilitate better understanding of the concepts before going into

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the large and complex problems. The book features computer applications (Primavera and MS Project) used to explain planning, scheduling, resource

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