

Engineering Economics By Riggs

A bold new history of the discovery of King Tut and the seismic impact it left on modern society. In 1922, Howard Carter and his team of fellow archeologists came upon a set of steps hidden deep under debris, in Egypt's Valley of the Kings. The path led them to a burial room, still perfectly intact, with three tombs including that of a young boy, the 18 year old Egyptian royal, King Tut. The discovery of the 3,300-year-old tomb of Tutankhamun sent shockwaves around the world, turning the boy-king into a household name overnight and kickstarting an international media obsession that grew into a historical phenomenon. In *Treasured* Egyptologist Christina Riggs traces the cultural history of King Tut's tomb: from the initial discovery and its impact on academia to the first public exhibition that drew thousands to the British Museum to the effect it had on US foreign policy and the British Royal family. Intertwined with her own personal experience and fascination with King Tut from a young age, which led to years of study and research as an Egyptologist, Riggs illustrates the profound legacy of the historical artifact and how lives of the past are reborn in the present. Moreover, Riggs' thoughtful retelling makes us question how we protect, preserve and present the lives of those long gone and who we let them become.

This new edition of the hugely successful *Quantitative Financial Economics* has been revised and updated to reflect the most recent theoretical and econometric/empirical advances in the financial markets. It provides an introduction to models of economic behaviour in financial markets, focusing on discrete time series analysis. Emphasis is placed on theory, testing and explaining 'real-world' issues. The new edition will include: Updated charts and cases studies. New companion website allowing students to put theory into practice and to test their knowledge through questions and answers. Chapters on Monte Carlo simulation, bootstrapping and market microstructure.

Winner of the Gold Award in the Tenth Annual Robert Bruss Real Estate Book Competition *24 Hour Cities* is the very first full length book about America's cities that never sleep. Over the last fifty years, the nation's top live-work-play cities have proven themselves more than just vibrant urban environments for the elite. They are attracting a cross-section of the population from across the U.S. and are preferred destinations for immigrants of all income strata. This is creating a virtuous circle wherein economic growth enhances property values, stronger real estate markets sustain more reliable tax bases, and solid municipal revenues pay for better services that further attract businesses and talented individuals. Yet, just a generation ago, cities like New York, Boston, Washington, San Francisco, and Miami were broke (financially and physically), scarred by violence, and prime examples of urban dysfunction. How did the turnaround happen? And why are other cities still stuck with the hollow downtowns and sprawling suburbs that make for a 9-to-5 urban configuration? Hugh Kelly's cross-disciplinary research identifies the ingredients of success, and the recipe that puts them together.

Drawing on a variety of theoretical concepts and methods, this book addresses the interface between language, politics and translation. The contributors analyse the role, practice and impact of journalistic translation in Canada, China, Arab countries, France, Spain, the Ukraine, Finland and Serbia. The introductory chapter surveys the evolution of journalistic translation research during the period 2015-2020. The chapters that follow delve into the role of language and translation in news production with a specific focus on the connections with politics and power. The authors analyse Canadian newspapers in French and English during the subprime crises, the representation of Muslims in three European newspapers in the aftermath of Nice terrorist attacks, the translation of Donald Trump's tweets in Spain, the role of evaluation in opinion articles in the Ukraine, the use of reported speech in Finnish articles, the translation of Donald Trump's offensive comments into Arabic and so on. In the discussions, the authors draw on functional grammar, critical discourse analysis, Appraisal theory and pragmatics. This volume will appeal to all those interested in the ways translation shapes media constructions of news events and showcases the centrality of journalistic translation research as a dynamic subfield within translation studies. The chapters in this book were originally published as a special issue of the journal *Perspectives: Studies in Translation Theory and Practice*.

The fourth edition of this text continues to be a comprehensive, authoritative and interesting resource for introductory and advanced courses in *Engineering Economics*. This new edition has streamlined the material into 15 accessible, readable chapters. The sequence of chapters flows through: 1) Fundamentals required for economic analysis; 2) Structural/procedures for performing those analyses; 3) Specific considerations for the public sector; 4) Depreciation and income tax considerations; 5) Inflation/considerations; and 6) Advanced concepts, including risk and decision. An emphasis on a clear, interesting writing style with numerous examples and review exercises offsets traditional ideas that the subject matter can be dull.

Pink Herrings engages in a re-examination of six of Freud's cases via Lacan's account of sexualisation. Specifically, the book outlines a theoretical framework in which sexualisation is understood as a 'choice' made in response to the fact of the sexual non relationship. In making this choice, unconscious fantasy allows for the circulation of object a, which bear traces of jouissance. Drawing upon Lacan's distinction between phallic and other jouissance, *Pink Herrings* examines the four positions outlined in Lacan's formula of sexualisation, and maps these onto the six case studies. In so doing, *Pink Herrings* not only brings new life and insights to the cases, but also clears a path to what is referred to as a 'clinic of sexualisation'. Such a clinic would not replace existing Lacanian psychoanalytic practice (with its focus on the structures of neurosis, perversion and psychosis), but instead provide additional avenues through which to explore the operations of fantasy.

Covering detailed discussion of fundamental concepts of economics, the textbook commences with comprehensive explanation of theory of consumer behavior, utility maximization and optimal choice, profit function, cost minimization and cost function. The textbook covers methods including present worth method, future worth method, annual worth method, internal rate of return method, explicit re-investment rate of return method and payout method useful for studying economic studies. A chapter on value engineering discusses important topics such as function analysis systems techniques, the value index, value measurement techniques, innovative phase and constraints analysis in depth. It facilitates the understanding of the concepts through illustrations and solved problems. This text is the ideal resource for Indian undergraduate engineering students in the fields of mechanical engineering, computer science and engineering and electronics engineering for a course on engineering economics/engineering economy.

With the rise of shared and networked vehicles, autonomous vehicles, and other transportation technologies, technological change is outpacing urban planning and policy. Whether urban planners and policy makers like it or not, these transformations will in turn result in profound changes to streets, land use, and cities. But smarter transportation may not necessarily translate

into greater sustainability or equity. There are clear opportunities to shape advances in transportation, and to harness them to reshape cities and improve the socio-economic health of cities and residents. There are opportunities to reduce collisions and improve access to healthcare for those who need it most—particularly high-cost, high-need individuals at the younger and older ends of the age spectrum. There is also potential to connect individuals to jobs and change the way cities organize space and optimize trips. To date, very little discussion has centered around the job and social implications of this technology. Further, policy dialogue on future transport has lagged—particularly in the arenas of sustainability and social justice. Little work has been done on decision-making in this high uncertainty environment—a deficiency that is concerning given that land use and transportation actions have long and lagging timelines. This is one of the first books to explore the impact that emerging transport technology is having on cities and their residents, and how policy is needed to shape the cities that we want to have in the future. The book contains a selection of contributions based on the most advanced empirical research, and case studies for how future transport can be harnessed to improve urban sustainability and justice. In the first decade of the twenty-first century, globalization and identity have emerged as the most critical challenges to world peace. This volume of *Peace & Policy* addresses the overarching question, "What are the effects of globalization in the areas of culture, ethnic diversity, religion, and citizenship, and how does terrorism help groups attain a sense of global identity?" Part I, "Citizenship in a Globalizing World," reexamines globalization in light of the traditions from which human civilizations have evolved. Linda Groff focuses on Samuel R. Huntington's thesis that the Cold War would be followed by a clash of civilizations. Joseph A. Camilleri traces the history of the concept of citizenship and its transformation through the ages to modern times. Kamran Mofid argues that the marketplace is not just an economic sphere but one where economic and business interests must embrace the spiritual assets of the community. Majid Tehranian raises the problem of identity and advocates the assumption of global identity, responsibility, and citizenship. Part II, "Convergence in Global Cultures," explores the complex issues of diversity in religions. Christopher Leeds, Vladimir Korobov, and Bharapt Gupt show how the reconceptualization of the world both geographically and regionally can recreate new sensibilities needed to overcome differences. Part III, "Divergence in Global Conflicts," discusses the multiple dimensions of the globalizing effects of economic expansion and political strife experienced by different cultures at local and regional levels. Audrey Kitigawa and Ade Ogunrinade use Nigeria as an example of political manipulation of religious and ethnic groups to divert attention from the real problems of social and economic marginalization. Fred Riggs looks at how the Web has become a medium in the globalization of religious movements. The authors maintain that continuing efforts for dialogue across cultural and religious boundaries in today's

least, the author wishes to thank his constantly helpful wife Maggie and his secretary Pat Weimer; the former for her patience, encouragement, and for acting as a sounding-board, and the latter who toiled endlessly, cheerfully, and most competently on the book's preparation. CONTENTS Preface / iii 1. INTRODUCTION / 1 Frequently Used Economic Studies / 2 Basic Economic Subjects / 3 Priorities / 3 Problems / 6 Appendixes / 6 References / 6 2. EQUIPMENT COST ESTIMATING / 8 Manufacturers' Quotations / 8 Estimating Charts / 10 Size Factoring Exponents / 11 Inflation Cost Indexes / 13 Installation Factor / 16 Module Factor / 18 Estimating Accuracy / 19 Estimating Example / 19 References / 21 3. PLANT COST ESTIMATES / 22 Accuracy and Costs of Estimates / 22 Cost Overruns / 25 Plant Cost Estimating Factors / 26 Equipment Installation / 28 Instrumentation / 30 v vi CONTENTS Piping / 30 Insulation / 30 Electrical / 30 Buildings / 32 Environmental Control / 32 Painting, Fire Protection, Safety Miscellaneous / 32 Yard Improvements / 32 Utilities / 32 Land / 33 Construction and Engineering Expense, Contractor's Fee, Contingency / 33 Total Multiplier / 34 Complete Plant Estimating Charts / 34 Cost per Ton of Product / 35 Capital Ratio (Turnover Ratio) / 35 Factoring Exponents / 37 Plant Modifications / 38 Other Components of Total Capital Investment / 38 Off-Site Facilities / 38 Distribution Facilities / 39 Research and Development, Engineering, Licensing / 40 Working Capital / 40

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 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 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 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.

Energy efficiency is more of a journey than a battle. It starts with small steps, taken at the local and state levels. It is a matter of identifying and then practicing good habits in our daily lives, at home and at work. Every idea and process described in this book, if performed reasonably well, will put money in your pocket. You will not only save money; you will probably make money—and you will take important steps toward saving the planet. *Power Economics* is a book for thoughtful people who want to cut their energy costs and diminish the harmful effects of greenhouse gas emissions. Climate change and global warming are not speculative fantasies. They are real. They threaten communities, towns, cities, regions, nations, and continents. Even if you don't care about polar bears and penguins, the effects of melting icecaps and shifting ocean currents will transform your life and the lives of the people around you. *Power Economics* offers practical steps and achievable strategies for reducing the destructive impact of climate change and global warming. Yes, we need energy to live and to sustain our economies. But we don't need to burn fossil fuels and release CO₂ gas at levels that will result in a global catastrophe. There are reasonable alternatives to our current practices. None of the ideas that described in this book are entirely new or totally unfamiliar. They aren't extreme or bizarre. They won't require harsh or draconian measures to work. All of them follow basic rules of common sense and can be achieved at reasonable cost. "I have done my best to convey the complexity and urgency of the matter. I hope that you find this book informative and useful. Working

together, we can shed many of our wasteful energy habits and begin the task of building a world that is safe, sustainable and healthy," writes author and energy expert Elena Cahill. Expert guidance for fiscally responsible engineering and technology managers. This thoroughly updated Second Edition is an accessible self-study guide and text that helps engineers extract important meaning from financial statements and accounting records, ask insightful questions, engage in thoughtful debate about accounting and financial issues, and make informed decisions that benefit their companies.

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

Most social scientific work on intimate relationships has assumed a monogamous structure, or has considered anything other than monogamy only in the context of 'infidelity'. Yet, in recent years there has been a growing interest among researchers and the public in exploring various patterns of intimacy that involve open non-monogamy. This volume gathers contributions from academics, activists, and practitioners throughout the world to explore non-monogamous relationships. Featuring both empirical and theoretical pieces, contributors examine the history and cultural basis of various forms of non-monogamy, experiences of non-monogamous living, psychological understandings of relationship patterns, language and emotion, the discursive construction of mono-normativity as well as issues of race, class, disability, sexuality and gender. This volume will be of interest to academics and practitioners working in the social sciences and anyone who is seeking greater insight into the intricacies of non-monogamous relationships.

This work offers a concise, but in-depth coverage of all fundamental topics of engineering economics.

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.

The essential introduction to the principles and applications of feedback systems—now fully revised and expanded This textbook covers the mathematics needed to model, analyze, and design feedback systems. Now more user-friendly than ever, this revised and expanded edition of Feedback Systems is a one-volume resource for students and researchers in mathematics and engineering. It has applications across a range of disciplines that utilize feedback in physical, biological, information, and economic systems. Karl Åström and Richard Murray use techniques from physics, computer science, and operations research to introduce control-oriented modeling. They begin with state space tools for analysis and design, including stability of solutions, Lyapunov functions, reachability, state feedback observability, and estimators. The matrix exponential plays a central role in the analysis of linear control systems, allowing a concise development of many of the key concepts for this class of models. Åström and Murray then develop and explain tools in the frequency domain, including transfer functions, Nyquist analysis, PID control, frequency domain design, and robustness. Features a new chapter on design principles and tools, illustrating the types of problems that can be solved using feedback Includes a new chapter on fundamental limits and new material on the Routh-Hurwitz criterion and root locus plots Provides exercises at the end of every chapter Comes with an electronic solutions manual An ideal textbook for undergraduate and graduate students Indispensable for researchers seeking a self-contained resource on control theory

The 1980s have witnessed a tremendous growth in the field of computer integrated manufacturing systems. The other major areas of development have been computer-aided design, computer-aided manufacturing, industrial robotics, automated assembly, cellular and modular material handling, computer networking and office automation to name just a few. These new technologies are generally capital intensive and do not conform to traditional cost structures. The net result is a tremendous change in the way costs should be estimated and economic analyses performed. The majority of existing engineering economy texts still profess application of traditional analysis methods. But, as was mentioned above, it is clear that the basic trend in manufacturing industries is itself changing. So it is quite obvious that the practice of traditional economic analysis methods should change too. This book is an attempt to address the various issues associated with non-traditional methods for evaluation of advanced computer-integrated technologies. This volume consists of twenty refereed articles which are grouped into five parts. Part one, Economic Justification Methods, consists of six articles. In the first paper, Soni et al. present a new classification for economic justification methods for advanced automated manufacturing systems. In the second, Henghold and LeClair look at strengths and weaknesses of expert systems in general and more specifically, an application aimed at investment justification in advanced technology. The third paper, by Carrasco and Lee, proposes an enhanced economic methodology to improve the needs analysis, conceptual design and detailed design activities associated with technology modernization.

This reference outlines the fundamental concepts and strategies for economic assessments for informed management decisions in industry. The book illustrates how to prepare capital cost and operating expense estimates, profitability analyses, and feasibility studies, and how to execute sensitivity and uncertainty assessments. From financial reports to opportunity costs and engineering trade-offs, Process Engineering Economics considers a wide range of alternatives for profitable investing and for projecting outcomes in various chemical and engineering fields. It also explains how to monitor costs, finances, and economic limitations at every stage of chemical project design, preparation, and evaluation.

Best-selling introductory chemical engineering book - now updated with far more coverage of biotech, nanotech, and green engineering • Thoroughly covers material balances, gases, liquids, and energy balances. • Contains new biotech and bioengineering problems throughout. • Adds new examples and homework on nanotechnology, environmental engineering, and green engineering. • All-new student projects chapter. • Self-assessment tests, discussion problems, homework, and glossaries in each chapter. Basic Principles and Calculations in Chemical Engineering, 8/e, provides a complete, practical, and student-friendly introduction to the principles and techniques of modern chemical, petroleum, and environmental engineering. The authors

introduce efficient and consistent methods for solving problems, analyzing data, and conceptually understanding a wide variety of processes. This edition has been revised to reflect growing interest in the life sciences, adding biotechnology and bioengineering problems and examples throughout. It also adds many new examples and homework assignments on nanotechnology, environmental, and green engineering, plus many updates to existing examples. A new chapter presents multiple student projects, and several chapters from the previous edition have been condensed for greater focus. This text's features include:

- Thorough introductory coverage, including unit conversions, basis selection, and process measurements.
- Short chapters supporting flexible, modular learning.
- Consistent, sound strategies for solving material and energy balance problems.
- Key concepts ranging from stoichiometry to enthalpy.
- Behavior of gases, liquids, and solids.
- Many tables, charts, and reference appendices.
- Self-assessment tests, thought/discussion problems, homework problems, and glossaries in each chapter.

Neil Grigg presents the core issues of economics and finance that relate directly to the work of civil engineers, construction managers, and public works and utility officials.

For the first time in human history, the vast majority of the world's population is connected through trade, travel, production, media and politics. Ours is an era of ubiquitous mobile communication, economic outsourcing, mass migration and imported consumer goods. At the same time, people everywhere are concerned to keep their identities rooted and sense of place in the face of momentous change. This new edition of Thomas Hylland Eriksen's concise and engaging landmark textbook outlines the main debates and controversies around globalization, and develops a unique perspective to show how globalization is an inherently double process, taking place both from above and below. Each chapter is supported by boxed case studies and bullet points summarizing the core information, suggestions for further reading, and essay and discussion questions, making this the ideal guide for both the classroom and independent study. Focusing on key concepts of globalization and drawing on international examples, this book is essential for anyone wishing to understand the fundamental processes underlying the contemporary world and the consequences these have for all of us.

Designed as a textbook for undergraduate students in various engineering disciplines—Mechanical, Civil, Industrial Engineering, Electronics Engineering 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 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 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 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.

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