

## *Building Economics: Appraisal And Control Of Building Design Cost And Efficiency (Building And Surveying Series)*

***Sixth edition of the hugely successful, internationally recognised textbook on global public health and epidemiology comprehensively covering the scope, methods, and practice of the discipline.***

***This volume focuses on the political economy surrounding the detailed decisions that governments make at each step of the value chain for natural resource management. From the perspective of public interest or good governance, many resource-dependent developing countries pursue apparently short-sighted and sub-optimal policies in relation to the extraction and capture of resource rents, and to spending and savings from their resource endowments. This work contextualizes these micro-level choices and outcomes.***

***Cost management of all building projects has become increasingly important as clients in the public and private sector demand the highest quality cost planning services with accurate budgeting and cost control. All members of the design team must integrate their activities to ensure that a high quality project is delivered on time and within budget. This book considers building cost planning and cost control from the client and the design team's perspective, where all decisions whether concerned with design, cost, quality, time, value or sustainability are taken as being interrelated. The latest Royal Institute of British Architects (RIBA) Plan of Work and the New Rules of Measurement for Early Stage Estimating and Cost Planning issued by the Royal Institution of Chartered Surveyors (RICS) have been incorporated into this new text. The book follows the building design cost planning process from the crucial inception stages and then through all the design stages to the completion of the technical design, contract documentation and the tender. It provides a template for good cost planning practice. An essential addition to this third edition is the introduction of integrated design and documentation processes captured in building Information modelling (BIM), on-line cost databases and computerised methods of cost planning. The integrated approaches are explained and provide vital information and knowledge for practitioners involved in building projects. All stakeholders involved in development and design and client teams in public and private sector policy making and implementation need to understand the new approaches to design management processes and how cost planning and design approaches are adapting to using the new technology in practice. The interactive style, using in-text and review questions makes this ideal for students and practitioners alike in property, architecture, construction economics, construction management, real estate, engineering, facilities management and project management.***

***Building Maintenance***

***The Political Economy of Natural Resource-Led Development***

***Cost Estimation of Structures in Commercial Buildings***

***An Integrated Approach***

***Construction Economics***

***Building Economics: Theory and Practice***

Traditional building economics has primarily been concerned with issues around project appraisal and cost management techniques. On the other hand, modern construction economics has a wider focus with stronger links to mainstream economics, reflecting an increased interest in a range of theoretical issues in construction economics, both at the macro and micro level. In *Modern Construction Economics: Theory and Application*, a variety of approaches are used to present a coherent vision of synthesis between industry economics and project economics. Topics covered include: developing construction economics as industry economics competition and barriers to entry in construction innovation in construction theory testing in construction management research collusion and corruption in the construction sector. Including contributions from academics in the UK, Sweden, Hong Kong, and Australia, this is a truly global review of a core issue for the construction industry worldwide. The result is a unique book that will push toward the development of a comprehensive theoretical framework of construction economics. This is a must-read for all serious students of construction economics, and all practitioners looking for a deeper understanding of their industry.

The financing of modern construction projects reflects the need to address the costs and benefits of the whole life of the project. This means that end of life economics can now have a far greater impact on the planning and feasibility phases. During the project itself, decisions on construction materials and processes all influence the schedule as well as both immediate and down-the-line costs. Massimo Pica and his co-authors explain in detail the fundamentals of project life cycle economics and how they apply in the context of complex modern construction. This is an essential guide for those involved in construction project design, tendering and contracting; to help ensure the sustainability of the project or their contribution to it, from the start. It is also important for those involved in the delivery of the project to help them make the choices to keep the project on a financial even keel. Government, corporations and other organizations are looking for new models of collaborative working to fund their large construction and infrastructure projects in the face of changing attitudes to risk; a better educated and more demanding base of end-user clients and the increasing requirements for projects that are environmentally responsible and sustainable. *Project Life Cycle Economics* is a fundamental primer for those commissioning and those delivering construction.

This new edition of the classic quantity surveying textbook retains its basic structure but has been thoroughly updated to reflect recent changes in the industry, especially in procurement. Although over the last 20 years a number of new procurement methods have evolved and become adopted, the recession has seen many clients revert to established traditional methods of procurement so the fundamentals of cost planning still apply - and should not be ignored. The first edition of this leading textbook was published in 1964 and it continues to provide a comprehensive introduction to the practice and procedures of cost planning in the

procurement of buildings. This 9th edition has been thoroughly updated to reflect changes that have occurred in the UK construction industry in the past six years. Whilst retaining its core structure of the three-phase cost planning process originally developed by Ferry and Brandon, the text provides a thorough grounding in contemporary issues including procurement innovation, whole life cycle costing and modelling techniques. Designed to support the core cost planning studies covered by students reading for degrees in quantity surveying and construction management, it provides a platform for understanding the fundamental importance of effective cost planning practice. The principals of elemental cost planning are covered from both pre- and post- contract perspectives; the role of effective briefing and client/stakeholder engagement as best practice is also reinforced in this text. This new edition: Addresses The Soft Landings Framework (a new govt. initiative, especially for schools) to make buildings perform radically better and much more sustainably. Puts focus on actual performance in use at brief stage, during design and construction, and especially before and after handover. Covers recent changes in procurement, especially under the NEC and PFI Provides more on PPP and long-term maintenance issues Offers an improved companion website with tutorial worksheets for lecturers and Interactive spreadsheets for students, e.g.

development appraisal models; lifecycle costing models

Ten Steps to a Results-Based Monitoring and Evaluation System

Building Economics: Appraisal and Control of Building Design Cost and Efficiency

Civil Engineering Quantities

Real Estate, Construction and Economic Development in Emerging Market Economies

Appraisal and Evaluation in Central Government : Treasury Guidance

Introduction to Cost-Benefit Analysis

The role of the project manager continues to evolve, presenting new challenges to established practitioners and those entering the field for the first time. This second edition of Peter Fewings' groundbreaking textbook has been thoroughly revised to recognise the increasing importance of sustainability and lean construction in the construction industry. It also tackles the significance of design management, changing health and safety regulation, leadership and quality for continuous improvement of the service and the product. Using an integrated project management approach, emphasis is placed on the importance of effectively handling external factors in order to best achieve an on-schedule, on-budget result, as well as good negotiation with clients and skilled team leadership. Its holistic approach provides readers with a thorough guide in how to increase efficiency and communication at all stages while reducing costs, time and risk. Short case studies are used throughout the book to illustrate different tools and techniques. Combining the theories underpinning best practice in construction project management, with a wealth of practical examples, this book is uniquely valuable for practitioners and clients as well as undergraduate and graduate students for construction project management.

This book presents a logical system of critical appraisal, to allow readers to evaluate studies and to carry out their own studies more effectively.

This system emphasizes the central importance of cause and effect relationships. Its great strength is that it is applicable to a wide range of issues, and both to intervention trials and observational studies. This system unifies the often different approaches used in epidemiology, health services research, clinical trials, and evidence-based medicine, starting from a logical consideration of cause and effect. The author's approach to the issues of study design, selection of subjects, bias, confounding, and the place of statistical methods has been praised for its clarity and interest.

Systematic reviews, meta-analysis, and the applications of this logic to evidence-based medicine, knowledge-based health care, and health practice and policy are discussed. Current and often controversial examples are used, including screening for prostate cancer, publication bias in psychiatry, public health issues in developing countries, and conflicts between observational studies and randomized trials. Statistical issues are explained clearly without complex mathematics, and the most useful methods are summarized in the appendix. The final chapters give six applications of the critical appraisal of major studies: randomized trials of medical treatment and prevention, a prospective and a retrospective cohort study, a small matched case-control study, and a large case-control study. In these chapters, sections of the original papers are reproduced and the original studies placed in context by a summary of current developments.

A comprehensive, up-to-date and illustrated exposition of building maintenance in all its aspects, to serve the needs of building surveyors and other professionals involved in this activity and building, surveying and architectural students. It shows the great importance of properly maintaining buildings and the advisability of providing adequate feedback to the design team. All the main building defects are described and illustrated and the appropriate remedial measures examined. Alterations and improvements to buildings and the specifying, measurement, pricing, tendering and contractual procedures are all examined, described and illustrated. In addition, the planning and financing, execution and supervision of maintenance work receive full consideration.

Cost-Benefit Analysis for Development

Fundamental Concepts for Owners, Engineers, Architects, and Builders

Critical Appraisal of Epidemiological Studies and Clinical Trials

Financial and Economic Appraisal Using Spreadsheets

Economic Analysis and Infrastructure Investment

Benefit-Cost Analysis

**This new edition incorporates revised guidance from H.M Treasury which is designed to promote efficient policy development and resource allocation across government through the use of a thorough, long-term and analytically robust approach to the appraisal and**

**evaluation of public service projects before significant funds are committed. It is the first edition to have been aided by a consultation process in order to ensure the guidance is clearer and more closely tailored to suit the needs of users.**

**This book discusses the relationship between construction quality and the state of the Singapore national economy, and describes how construction quality is affected as contracting firms strategically manage issues relating to profitability and survivability during economic boom and bust cycles. Adopting a three-pronged approach to explain the key issues, the book first explains the effect of the state of the Singapore national economy (boom or bust) on the construction quality delivered by contracting firms. Secondly, it explains how contracting firms respond to the performance of the national economy through their dynamic bidding strategies, leading to significant quality trade-offs in some instances, especially when there is imprecise market information. Thirdly, it recommends various strategic measures that key stakeholders and government policy-makers can take to circumvent the quality trade-off in the construction industry when faced with dynamic fluctuations in the performance of the national economy. Although the book focuses on Singapore, it appeals to a global audience since countries worldwide (and their respective building-related stakeholders) face the same issues in terms of the time-cost-quality trade-off decision-making process involving the entire supply chain.**

**Students across a wide range of disciplines, ranging from construction management and construction engineering through to architecture, property and surveying should find this an invaluable textbook.**

**Building Technology**

**Appraisal and control of building design cost and efficiency**

**Impact of Sustainability on Project Evaluation**

**Building Economics**

**Appraisal and Control of Building Design Cost and Efficiency**

The drive towards environmentally friendly buildings and infrastructure has led to a growing interest in providing design solutions underpinned by the core principles of sustainability to balance economic, social and environmental factors. Design Economics for the Built Environment: Impact of sustainability on project evaluation presents new directions, reflecting the need to recognise the impact of climate change and the importance of sustainability in project evaluation. The aim is to provide a new approach to understanding design economics in the context of the changing policy environment, legislative and regulatory framework, and increasing economic, environmental and social pressure as result of the sustainability agenda. The book follows a structured approach from theories and principles in the earlier chapters, to the practical applications and emerging techniques focusing on value and social, economic and environmental considerations in making design decisions. It starts with the policy context, building on various theories and principles such as, capital cost, value of design and resource-based theories, the new rules of measurement (NRM) to explore cost planning, the relationship between height and costs, key socio-economic and environmental variables for design appraisal, eco-cost/value ratio (EVR), whole life theory and the treatment of carbon emission as external costs, productivity and efficiency, fiscal drivers and legal framework for carbon reduction, procurement and allocation of risks in contracts. Case studies, practical examples and frameworks throughout reinforce theories and principles and relate them to current practice. The book is essential reading for postgraduate students in architecture, building and quantity surveying and is also a valuable resource for academics, consultants and policy-makers in the built environment.

Policy makers often call for increased spending on infrastructure, which can encompass a broad range of investments, from roads and bridges to digital networks that will expand access to high-speed broadband. Some point to the near-term macroeconomic benefits, such as job creation, associated with infrastructure spending; others point to the long-term effects of such spending on productivity and economic growth. Economic Analysis and Infrastructure Investment explores the links between infrastructure investment and economic outcomes, analyzing key economic issues in the funding and management of infrastructure projects. It includes new research on the short-run stimulus effects of infrastructure spending, develops new estimates of the stock of US infrastructure capital, and explores incentive aspects of public-private partnerships with particular attention to their allocation of risk. The volume provides a reference for researchers seeking to study infrastructure issues and for policymakers tasked with determining the appropriate level and allocation of infrastructure spending.

This practical guide to cost studies of buildings has been updated and revised throughout for the 5th edition. New chapters have been added on the RICS New Rules of Measurement (NRM) for order of cost estimating and elemental cost planning, and on the procurement of construction projects.

Oxford Textbook of Global Public Health

A Study at the Firm Level

Cost Studies of Buildings

Project Management for Construction

A New Approach

Ferry and Brandon's Cost Planning of Buildings

**Building Economics Appraisal and Control of Building Design Cost and Efficiency Building Economics Appraisal and Control of Building Design Cost and Efficiency Building Economics Building economics Appraisal and control of building desing cost and efficiency, by Building Economics Appraisal and Control of Building Design Cost and Efficiency Cost Studies of Buildings Routledge**

**This comprehensively rewritten, updated and extended new edition of this established text focuses on what has become the most important single facet of the quantity surveyor's role - cost management. The scope of the book has been broadened to take account of the widening and more sophisticated cost management and control service that clients now require. The book examines the factors influencing building costs and how the precontract costs can be estimated, analysed and controlled, to ensure that buildings can be completed within the agreed budget and timescale, and be of acceptable quality, function effectively and provide value for money. A new chapter on value management has been added, together with an introductory chapter on cost modelling; the chapter on life cycling costing is extended, while the sections on energy conservation and occupancy costs are expanded. Throughout the text many new case studies, with supporting tables and diagrams, are included in order to enhance the value of this book to the student and the practitioner.**

**Real Estate, Construction and Economic Development in Emerging Market Economies examines the relationships between real estate and construction sectors and explores how each sector, and the relationships between them, affect economic development in emerging market economies (EMEs).**

**Throughout the book, the international team of contributors discuss topics as diverse as real estate finance and investment, housing, property development, construction project management, valuation, sustainability and corporate real estate. In doing so the book demonstrates how the relationship between construction and real estate impacts on economic development in countries such as Argentina, Brazil, Colombia, China, Ghana, Nigeria, Turkey, Lithuania, Hungary and Slovenia. Topics include: the role of real estate brokerage in improving the living standards of citizens; the effect of a mineral boom on construction cycles, real estate values and the socio-economic conditions of people in boom towns and cities; corporate real estate management practices and how they affect economic growth; and the synergies between construction and real estate and how they, in turn, affect economic development. This book will be of interest to those studying and researching real estate, construction, development studies, urban economics and emerging market economies.**

**Looking for Reasonable Shortcuts**

**A Handbook for Development Practitioners**

**Design Economics for the Built Environment**

**Building economics**

**Modern Construction Economics**

**Construction Quality and the Economy**

This innovative Research Companion considers the history, nature and status of construction economics, and its need for development as a field in order to be recognised as a distinct discipline. It presents a state-of-the-art review of construction economics, identifying areas for further research.

We no longer build buildings like we used to nor do we pay for them in the same way. Buildings today are no longer only shelter but are also life support systems, communication terminals, data manufacturing centers, and much more. Buildings are incredibly expensive tools that must be constantly adjusted to function efficiently. The economics of building has become as complex as its design. When buildings were shelter they lasted longer than their builders. The average gothic master mason lived 35 or 40 years. Cathedrals took 3 or 4 hundred years to build. Cost estimates were verified by great great grandchildren of the original designer. Today, creative economics has become as important as creative design and creative building. The client brings builder, contractor, architect, and facilities manager to account in their life time. The cost of building can therefore no longer be left to chance or act of god. Solutions are no longer as ingeniously simple as those proposed by a Florentine builder early in the 15th century. He proposed to center the dome of S. Maria del Fiore on a great mound of earth mixed with pennies. When the job was done street urchins would carry away the dirt in their search for the pennies. This was a serious suggestion offered by an early construction manager before Brunelleschi solved the problem

more sensibly.

Life-cost approach to building evaluation comprehensively addresses in a reader-friendly, accessible way the fundamentals of life-cost studies in the built environment. It includes the time-value of money, discounted cash-flow analysis, differential price-level movement and affordability fluctuations. Contemporary issues such as occupancy costs, sustainability implications and value adding are also addressed. Replete with illustrations and examples, this innovative book provides a holistic approach to evaluation that integrates life-costing to broader social and environmental criteria. Important features include: - presentation materials to facilitate face-to-face and online learning - review questions - worked tutorial exercises, and - example examination papers.

Life-Cost Approach to Building Evaluation

Analysis of Value and Cost

Introduction to Economic Analysis

The Green Book

Research Companion to Construction Economics

Rents to Riches?

*This Handbook provides a comprehensive ten-step model that will help guide development practitioners through the process of designing and building a results-based monitoring and evaluation system.*

*Throughout the text of this introduction to benefit cost analysis, emphasis is on applications, and a worked case study is progressively undertaken as an illustration of the analytical principles in operation. The first part covers basic theory and procedures. Part Two advances to material on internationally tradeable goods and projects that affect market prices, and part Three introduces special topics such as the treatment of risk and uncertainty, income distributional effects and the valuation of non-marketed goods. Instructors' resource web site: <http://www.uq.edu.au/economics/bca>*

*Construction Economics provides students with the principles and concepts underlying the relationship between economic theory and the construction industry. The New Approach adopts an argument that economics is central to government initiatives concerning sustainable construction. This edition has been revised to explain the effects of the current economic crisis on the construction industry. In addition, sections relating to less developed countries, the economics of sustainable development and theories relating to a firm's bid strategy have all been rewritten. With new data, examples, initiatives, readings, glossary items and references, the third edition of this established core text builds on the strengths of the previous edition: a clear and user-friendly style use of a second colour to highlight important definitions and formulae regular summaries of key points a glossary of key terms extensive use of tables and figures extracts from the academic journal Construction Management and Economics to consolidate and prompt discussion reviews of useful websites This invaluable textbook is essential reading across a wide range of disciplines from construction management and civil engineering to architecture, property and surveying.*

*Building Cost Planning for the Design Team*

*Cost Estimation, Management and Effectiveness in Construction Projects*

*Guidelines for the Economic Analysis of Projects*

*Theory and Application*

*Quantity Surveying Practice*

*Project Life Cycle Economics*

*The Asian Development Bank (ADB) has been continuously undertaking measures to enhance the effectiveness of its operations. To improve projects both at the preparation and implementation stages, ADB issued the Guidelines for Economic Analysis of Projects in 1997 as a means to enhancing project quality at entry. The conduct of proper economic analysis helps ensure the efficient use of development funds and public resources and thereby increase aid effectiveness. This practical guide is a supplement to the Guidelines for the Economic Analysis of Projects. It provides an overview of recent methodological developments in cost-benefit analysis as well as suggested improvements in the economic analysis of projects in selected sectors through case studies. These case studies illustrate the application of suggested methodologies, taking into account sector-specific needs, as well as difficulties faced by practitioners in terms of data and time constraints during project processing. It also aims to contribute to ADB's capacity building initiatives as this will be the main reference material for conduct of economic analysis.*

*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.*

*This thoroughly updated second edition incorporates key ideas and discussions on issues such as wider economic impacts, the treatment of risk, and the importance of institutional arrangements in ensuring the correct use of technique. Ginés de Rus considers whether public decisions, such as investing in high-speed rail links, privatizing a public enterprise or protecting a natural area, may improve social welfare.*

*Construction Project Management*

*Appraisal and control of building design cost and efficiency, by*

*A Practical Guide*

*Building Project Appraisal*