

Building Costs Per Square Metre In South Africa

The ultimate goal of building and construction – in relation to environmental issues – is to construct in an environmentally neutral way; or, as the Brundtland Report states, to consume in such a way that our children have the same choices that we have. Construction will always be needed, and will always consume resources. But in accordance with the conditions of the Brundtland Report, we should move construction into a direction that does not deplete resources, and does not worsen living circumstances through harmful indoor or outdoor environmental effects. Improving our efficiency in resource consumption is the only way in which we will be able to continue our current way of life. It has been calculated that in order to (only) maintain the world average lifestyle a factor 4 of improvement in efficiency of resource consumption is necessary, based on global resource availability, effects on climate change, and coping with growing welfare for developing countries. Measuring a factor x improvement heavily relates to the chosen benchmark. Building activities will always require some environmental load: the mere fact of living already implies use of earthbound resources, so it is generally not very efficient to calculate emissions and other effects in an absolute way. The ultimate target is not to avoid resource use at all, but to use only “reproductive resources” (“regrowable, renewable and replaceable”) to create a balanced situation. When this is achieved, we will still use resources, but usage will be sustainable: it can be maintained well into the future. In developing an approach for assessing sustainable building, the Three Step Strategy (in the Netherlands named Trias Ecologica) has proven to be useful. This publication takes a detailed look at this Strategy.

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The Department for Children, Schools and Families' Building Schools for the Future Programme (BSF) plans to renew every secondary school in the country, by rebuilding half of them, structurally remodelling 35 per cent, refurbishing 15 per cent and providing Information Communication Technology to all. Its aim is to use capital investment in new buildings as a catalyst to improve educational outcomes. The Department estimates that the programme will cost £52-£55 billion over its lifetime. The Department was over-optimistic in its original planning assumptions for BSF: of the 200 schools originally planned to be completed by December 2008, only 42 had been by that date. The Department now expects the programme to take 18 years, with the last school completed in 2023. Local authorities are responsible for the local delivery of BSF. They plan, procure and manage the BSF school buildings. In 2004, the Department established Partnerships for Schools to manage the national delivery of the programme. The Department and Partnerships for Schools encourage local authorities to procure their schools through a Local Education Partnership. These are 10-year partnerships to procure a flow of projects, structured as joint ventures between the local authority, a consortium of private companies that build, finance and maintain schools, and Building Schools for the Future Investments. It is too early to conclude whether BSF will achieve its educational objectives. To date, over-optimism has meant the programme could not live up to expectations. Establishing Partnerships for Schools to manage the programme centrally has helped local authorities to deliver more effectively, but while Local Education Partnerships have potential advantages, their value for money is yet to be proven. And it will be very challenging to deliver all schools by 2023.

Design is widely recognised as the key to improving the quality of the built environment. This

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well-illustrated book comprises 15 chapters written by leading practitioners, clients, academics and other experts, and presents the latest thinking on what design quality is and how to achieve it. For design practitioners and their clients alike, the book provides evidence to justify greater focus on, and investment in, design. It summarises the benefits that arise from good design - such as, civic pride in the urban environment, the stimulation of urban regeneration, corporate identity, occupant productivity and health in offices, improved learning outcomes in schools, better patient recovery rates in hospitals, as well as reduced environmental impact. And it illustrates these benefits through case study examples. Eight chapters focus on case studies of exemplary buildings in particular sectors - offices, schools, housing, and hospitals - and explain why and how they came to be designed, and the design qualities they exhibit. The development of interactive displays has transformed the traditional museum world in the last decade. Visitors are no longer satisfied by simply gazing at worthy displays in glass cases - they expect to have hands-on experience of the objects and be actively involved with the exhibits, learning informally and being entertained simultaneously. Hands-on museums and science centres provide the most remarkable example of how museums are redefining their roles in society - improving access to real objects and real phenomena, so that they can be enjoyed by more people. In recent years museums have been thrust into intense competition for the public's time and money with all branches of the leisure industry, from commercial theme parks to retail shopping and home entertainment. This has upset the traditional stability of the museum and their visitors. A hands-on approach encourages a broader visitor base, which in turn helps to bring in additional revenue at a time of declining public subsidy. Tim Caulton investigates how to create and operate effective exhibitions which achieve their

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educational objectives through hands-on access. He concludes that the continuing success of hands-on museums and science centres hinges on attaining the very best practice in exhibition design and evaluation, and in all aspects of operations, including marketing and financial and human resource management. Hands-On Exhibitions provides a practical guide to best practice which will be indispensable to all museum professionals and students of museum studies.

The Norfolk and Norwich University Hospital NHS Trust currently pays £38.7 million a year to a private sector consortium, Octagon, for the building and maintaining of a new hospital. This pathfinder PFI contract was entered into in 1998 but in 2003 Octagon was able to refinance their deal and gain £81 million (some of which was shared with the Trust). This report examines whether the large private sector gains indicates some inadequacy in the initial PFI deal and how the price the Trust is paying compares to current PFI hospital deals. The overall findings were that Trust continues to pay a premium on financing costs compared to current deals and it might have improved the original deal with greater competition and better defined requirements. However the Trust believes it gained benefit from the early provision of facilities in a deal that had previously been assessed as good value for money.

The world of construction is intrinsically linked with that of finance, from the procurement and tendering stage of projects right through to valuation of buildings. In addition to this, things like administrations, liquidations, mergers, take-overs, buy-outs and floatations affect construction firms as they do all other companies. This book is a rare explanation of common construction management activities from a financial point of view. While the practical side of the industry is illustrated here with case studies, the authors also take the time to build up an understanding

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of balance sheets and P&L accounts before explaining how common tasks like estimating or valuation work from this perspective. Readers of this book will not only learn how to carry out the tasks of a construction cost manager, quantity surveyor or estimator, they will also understand the financial logic behind them, and the motivations that drive senior management. This is an essential book for students of quantity surveying or construction management, and all ambitious practitioners.

Utilise Excel 2013 capabilities to build effective financial models Using Excel for Business Analysis, Revised Edition provides practical guidance for anyone looking to build financial models. Whether for business proposals, opportunity evaluation, financial reports, or any other business finance application, this book shows you how to design, create, and test your model, then present your results effectively using Excel 2013. The book opens with a general guide to financial modelling, with each subsequent chapter building skill upon skill until you have a real, working model of your own. Financial tools, features, and functions are covered in detail from a practical perspective, and put in context with application to real-world examples. Each chapter focuses on a different aspect of Excel modelling, including step-by-step instructions that walk you through each feature, and the companion website provides live model worksheets that give you the real hands-on practice you need to start doing your job faster, more efficiently, and with fewer errors. Financial modelling is an invaluable business tool, and Excel 2013 is capable of supporting the most common and useful models most businesses need. This book shows you how to dig deeper into Excel's functionality to craft effective financial models and provide important information that informs good decision-making. Learn financial modelling techniques and best practice Master the formulas and functions that bring your model to life

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Apply stress testing and sensitivity analysis with advanced conditionals Present your results effectively, whether graphically, orally, or written A deceptively powerful application, Excel supports many hundreds of tools, features, and functions; Using Excel for Business Analysis eliminates the irrelevant to focus on those that are most useful to business finance users, with detailed guidance toward utilisation and best practice.

A textbook on design economics for students of architecture, building and quantity surveying, it examines the links between design and the costs of building as well as more general economic issues and their significance for designers and builders.

Square-foot costs for residential, commercial, industrial, military, schools, greenhouses, manufactured homes, fire stations, libraries, churches, government offices and farm buildings. Includes important variables that can make any building unique from a cost standpoint. A smart resource for adjusters and appraisers using the cost approach.

Quickly work up a reliable budget estimate based on actual materials and design features, class of construction, area, shape, wall height, number of floors, and support requirements. Includes easy-to-use software that calculates total in-place cost estimates. Use the regional cost adjustment factors provided to tailor the estimate to any jobsite in the U.S. Then view, print, email or save the detailed PDF report as needed.

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

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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.

The background to this NAO report is a renewed focus on the contribution that office property can make to improving government efficiency. The Government's civil property estate has an estimated worth of £30 billion and costs around £6 billion to run presenting significant opportunities for savings. This NAO report seeks to add impetus to the Office of Government's Commerce (OGC) initiative to save up to £1.5 billion through an annual efficiency saving by 2013. This report presents a consolidated view of the performance of central government departments' UK office property. The assessment is based on 16 Government departments', with a detailed review of departments' office strategies and planning processes. Divided into five parts, it covers the following areas: the importance of office property; an analysis of central

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government's spending; departmental property asset management; the role of the OGC in improving government's value for money; the potential efficiency savings from improving the performance of office property. Among the recommendations, are: Departments should have better data on the efficiency of individual buildings; Departments should actively engage with the OGC's benchmarking service for the efficiency performance of buildings; Department's can achieve cost savings by locating in less expensive regions.

This unique handbook collects together a comprehensive and up-to-date range of indices measuring construction costs and price movements. The authors give guidance on the use of the data making this an essential aid to accurate estimating.

The Manhattan skyline is one of the great wonders of the modern world. But how and why did it form? Much has been written about the city's architecture and its general history, but little work has explored the economic forces that created the skyline. In *Building the Skyline*, Jason Barr chronicles the economic history of the Manhattan skyline. In the process, he debunks some widely held misconceptions about the city's history. Starting with Manhattan's natural and geological history, Barr moves on to how these formations influenced early land use and the development of neighborhoods, including the dense tenement neighborhoods of Five Points and the Lower East Side, and how these early decisions eventually impacted the location of skyscrapers built during the Skyscraper Revolution at the end of the 19th century. Barr then explores the

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economic history of skyscrapers and the skyline, investigating the reasons for their heights, frequencies, locations, and shapes. He discusses why skyscrapers emerged downtown and why they appeared three miles to the north in midtown-but not in between the two areas. Contrary to popular belief, this was not due to the depths of Manhattan's bedrock, nor the presence of Grand Central Station. Rather, midtown's emergence was a response to the economic and demographic forces that were taking place north of 14th Street after the Civil War. Building the Skyline also presents the first rigorous investigation of the causes of the building boom during the Roaring Twenties. Contrary to conventional wisdom, the boom was largely a rational response to the economic growth of the nation and city. The last chapter investigates the value of Manhattan Island and the relationship between skyscrapers and land prices. Finally, an Epilogue offers policy recommendations for a resilient and robust future skyline. Compact living is sustainable living. High-density cities can support closer amenities, encourage reduced trip lengths and the use of public transport and therefore reduce transport energy costs and carbon emissions. High-density planning also helps to control the spread of urban suburbs into open lands, improves efficiency in urban infrastructure and services, and results in environmental improvements that support higher quality of life in cities. Encouraging, even requiring, higher density urban development is a major policy and a central principle of growth management programmes used by planners around the world. However, such density creates design

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challenges and problems. A collection of experts in each of the related architectural and planning areas examines these environmental and social issues, and argues that high-density cities are a sustainable solution. It will be essential reading for anyone with an interest in sustainable urban development.

Based on extensive research in developing countries, this is a study of residents making extensions to their housing which have transformed their living-spaces and conditions.

Profit from Property is the must-have guide for anyone who wants to make money out of property development. Expert author Philip Thomas will show you step by step how to develop property the smart way—from purchasing the best development opportunity, to financing the development, through to completion and disposal of the property. His fool-proof system will have you buying, managing, developing and selling property like an expert, whether you're a first-time developer or an experienced investor wanting to make more out of your portfolio. Inside you'll discover: money-making strategies for residential, commercial and industrial properties handy tips and case studies that will save you time, cash and stress a proven development model that you can start using immediately with results how to become a successful property developer without a huge amount of cash behind you. The best time to get into property is now. Read this book today and start profiting from property tomorrow!

UK construction shows its underlying strength. Tender prices have risen strongly

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since last year's book was compiled -- increasing by around 8%, and at an annualised rate of close to 10% in the last half year. Spon's Architects' and Builders' Price Book 2017, compiled by AECOM, still provides the most accurate, detailed and professionally relevant construction price information for the UK. Its unique Tender Index, updated through the year, gives an ongoing reality check and allows you to adjust for changing market conditions. Although it suits a wide range of project sizes, this is the only price book which sets out a detailed cost base for contracts exceeding £4,000,000 in value. Use the access code inside the front cover of the book to get set up with internet access to this 2017 edition until the end of December 2017. We now provide a VitalSource® ebook, giving a versatile and powerful online data viewing package. Major changes have been made to this 142nd edition: Major revision and simplification has been made to the in situ concrete section, and plasterboard linings and partitions sections have been heavily revised and developed. New Cost Models are included: a laboratory, a car park and an updated London Office. More plant prices have been separated out in the measured works section. As well as an overhaul of prices, several new items have been added, including: Foamglas insulation Carlite waterproof concrete and an expanded range of stone flooring ... along with the standard features you have come to expect from Spon's A&B:

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20,000 prices for the most frequently specified items, the majority with labour constants and detailed build-ups. Hundreds of alternative materials prices for the more unusual items. Detailed guidance on wage rates, daywork, cost limits and allowances, property insurance and professional fees, plus useful formulae, design criteria and trade association addresses. Updated, free of charge, two or three times a year – see inside for registration details. Updates are available online at www.pricebooks.co.uk

An academy is a new type of school that is publicly funded, supported by one or more sponsors and operates independently of the local authority. Their aim is to raise achievement standards in deprived areas by replacing poorly performing schools. By 2006 46 were operating and there are plans for 200 academies to be opened by 2010. This report looks at the capital and running costs, new academy buildings, academic performance, their contribution to tackling social deprivation, and the management of the programme. The value for money assessment is that academic progress means that the Academy programme is on track to deliver good value for money. However to achieve this goal it needs to pay attention both to managing the capital costs and the sustainability of funding and performance.

Spon's European Construction Costs Handbook is the only book of its kind - a

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unique compilation of cost data on the single most important construction market in the world. This updated edition expands its coverage of countries and once again gives details of select difficult-to-research markets in Eastern Europe as well as Western Europe, North and South. The book includes: * key data on the main economic and construction indicators as well as on geography and population * an outline of the national construction industry covering structure, tendering and contract procedures, liability and insurance and regulation and standards. * labour and materials cost data * measured rates (in local currency) for up to 60 or so construction work items * approximate estimating costs for a range of building types * regional variation percentages, tax details, construction cost and retail price indices. Exchange rates with £ sterling, euro and US\$ * addresses of authorities, professional institutions, trade associations etc. To facilitate country to country comparisons the book also includes a Comparative Data section, where figures from the individual country chapters are grouped in tables on economy, geography, construction output, input costs per square metre for offices, warehouses and housing. Figures here are given in national currency, sterling, US dollars and Euros.

The years 1955-1959 in Communist China included striking fluctuations and successes for Mao Tse-tung's Party, and the working out of the first Five-Year

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Plan for economic and agricultural development. Here analysis of domestic developments is supported by 48 documents--directives, speeches, and articles. The major Party pronouncements are given in full. The significance of each is clarified by prefatory comments indicating additional readings, and by the 41-page introductory essay. This newly integrated picture of five crucial years pioneers the use of documentation (as in Soviet studies) for dealing with Communist China.

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

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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.

Spon's Architects' and Builders' PriceCRC Press

The second edition of this authoritative textbook equips students with the tools they will need to tackle the challenges of sustainable building design and engineering. The book looks at how to design, engineer and monitor energy efficient buildings, how to adapt buildings to climate change, and how to make

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buildings healthy, comfortable and secure. New material for this edition includes sections on environmental masterplanning, renewable technologies, retrofitting, passive house design, thermal comfort and indoor air quality. With chapters and case studies from a range of international, interdisciplinary authors, the book is essential reading for students and professionals in building engineering, environmental design, construction and architecture.

The third edition of *Property Valuation: The Five Methods* introduces students to the fundamental principles of property valuation theory by means of clear explanation and worked examples. An ideal text for those new to the subject, the book provides 1st year undergraduate students with a working knowledge and understanding of the five methods of valuation and the ways in which they are interlinked. In this fully revised edition, the new author team have: restructured the chapters to ensure a more logical order outlined the economic theory of value and the rules and constraints under which a valuer works provided detailed consideration of each of the five recognised approaches placed a larger emphasis on the Discounted Cash Flow approach These revisions are all written in the concise and accessible style which has made previous editions of the book so successful. The new edition of this textbook will be essential reading for undergraduates on all property, real estate, planning and built environment

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courses.

This easy-to-use guide gives you the building components required to develop accurate assemblies-level cost estimates, evaluate trade-off costs and verify unit price estimates. Be prepared to estimate any job with this indispensable cost reference. An accurate estimate of costs to build your particular project depends on location, project scope, specific components used and current market conditions.

(BSF) programme believe that it is leading to more strategic procurement of school infrastructure than previous school building programmes. Local Authorities are using BSF to rearrange the location, type and number of schools in their area and create facilities and school environments which support their educational objectives. BSF schools are built to higher specifications and space standards than previous schools. The Department for Children, Schools and Families (DCSF) and Partnerships for Schools (the body established by DCSF to manage the BSF programme centrally) were too optimistic in their assumptions of how quickly the first schools could be delivered. By December 2008, only 42 of the planned 200 schools had been built, with 54 due to open next year and 121 the year after. To include all schools in the programme, 250 schools will need to be built a year and the number of schools in procurement and construction at any one time will need to double from 2011 onwards. The extent to which problems in the finance markets will affect BSF is still unclear. DCSF and Partnerships for Schools estimate that the total cost of renewing the school estate will

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be between £52 billion to £55 billion which is £7 billion to £10 billion more than was estimated at the outset of the programme.

A comprehensive guide to estimating costs for self-builders and small developers. With tender prices rising slightly, looking at price lists is not enough – you need SPON'S ARCHITECTS' AND BUILDERS' PRICE BOOK 2011 to get a competitive edge. SPON'S ARCHITECTS' AND BUILDERS' PRICE BOOK, compiled by Davis Langdon, provides the most accurate, detailed and professionally relevant construction price information currently available for the UK. Its unique Tender Index, updated through the year, provides an ongoing reality check and adjustment for changing market conditions. This is the only price book which sets out a detailed cost base for major works contracts exceeding £3,500,000 in value, as well as minor works. Major changes have been made to this 136th edition: Overheads and profits have been kept low and in line with actual levels. Preliminaries have also been dropped to 11%, on a lower cost base. And labour rates have been adjusted to reflect today's fragile market. As well as an overhaul of prices, Spon's Architects' and Builders' Price Book 2011 includes: new Measured Works items including bio diverse roofs; Clayboard void formers; fire resisting glass blocks; UPVC window options (coloured, Secured by Design); glazing (curve cutting, drill holes); insulating panels (Kooltherm, Thermafloor, Thermaline); more internal door options; blister tactile paving; Metsec SFS framing; Ecosil paint new Approximate Estimating items: lift pits; Corium brick tiles; solar hot

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water; photovoltaic cells; and polished plaster extra elemental building cost models on land remediation; school refurbishment; and office refurbishment. Buyers of this 2011 edition can make a free internet download of SPON'S ARCHITECTS' AND BUILDERS' price data, which will run to the end of 2011 and: Access Spon's new Approximate Estimates rate data, as well as the Measured Works data Produce estimate and tender documents Generate priced or unpriced schedules Adjust rates and data and enter rogue items Export schedules into Excel Carry out an index search. This year, for the first time, the resources include a versatile and powerful ebook. 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

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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

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

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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.

Includes: approximately 11,000 material prices; almost 50,000 built-up work items; nearly 5,000 approximate estimating prices; the BCIS costs per square metre; and pricing system CD.

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Going beyond previous investigations into urban land use and travel, Petter Næss presents new research from Denmark on residential location and travel to show how and why urban spatial structures affect people's travel behaviour. In a comprehensive case study of the Copenhagen metropolitan area, Næss combines traditional quantitative travel surveys with qualitative interviews in order to identify the more detailed mechanisms through which urban structure affects travel behaviour. The case study findings are compared with those from other Nordic countries and analyzed and evaluated in the light of relevant theory and literature to provide solid, valuable conclusions for planning sustainable urban development. With a broader range of statistics than previous studies and conclusions of international relevance, *Urban Structure Matters* provides well-grounded conclusions for how spatial planning of urban areas can be used to reduce car dependence and achieve a more sustainable development of cities.

Have you ever had to provide accurate costs for a new supermarket or a pub "just an idea...a ballpark figure..." ? The earlier a pricing decision has to be made, the more difficult it is to estimate the cost and the more likely the design and the specs are to change. And yet a rough-and-ready estimate is more likely to get set in stone. Spon's First Stage Estimating Handbook is the only comprehensive and reliable source of first stage estimating costs. Covering the whole spectrum of building costs and a wide range of related M&E work and landscaping work, vital cost data is presented as: costs per square metre elemental cost analyses principal rates composite rates. Compact and clear, Spon's First Stage Estimating Handbook is ideal for those

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key early meetings with clients. And with additional sections on whole life costing and general information, this is an essential reference for all construction professionals and clients making early judgements on the viability of new projects.

building culture describes how cultural buildings are conceived and procured, through a review of data, case studies and interrogation of the processes - an invaluable resource for anyone commissioning arts and cultural buildings in the UK. building culture is a uniquely comprehensive investigation that offers research, guidance, analysis of Covid impacts and recommendations for communities, arts professionals, commissioners, clients, architects, project teams and policy makers for future best practice. building culture contains: -

Contributions by eminent architects, competition programmers and a client · Unique data analysis of the procurement processes of the sector · Arts funding guidance and procurement analysis · Resources and references. building culture looks at the procurement data for 421 arts and heritage capital projects across the UK between 2013 and 2018 to establish what procurement route was taken, what guidance was provided and by whom, who were the consultants appointed, some examples of best practice and some less good, and lessons learnt. Based on this evidence and previous research, building culture then makes recommendations for the key funding bodies and those advising or undertaking arts and heritage capital procurement and projects. In order to understand the landscape of arts and cultural buildings and their procurement it has also been required to understand the funding ecology and specifically that of the national arts funding bodies. This is seen in the light of the current context as the sector responds to Covid, Brexit, austerity and the future challenges of a Climate Emergency. “Building Culture is a comprehensive survey and commentary of the

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processes and power of cultural development and its reach across the United Kingdom. The authors ... then present some of the urgent and important challenges and issues of our time ... expertly framed through a diverse set of exemplar projects as case studies ... situated ... within the complex ... world of planning, policy, and funding regimes. The result will prove an essential resource to students, practitioners and others looking to understand the world of cultural development with all its many challenges and opportunities ... The recommendations the authors present to us here are central to a dialogue which is much needed about the values and principles needed for our society in the future.” Donald Hyslop, Chair of Creative and Cultural Skills UK. “This in-depth study of how cultural spaces are conceived and procured is hugely valuable to clients and design teams who often work in seeming isolation creating and adapting projects ... It is especially valuable as returning from the pandemic we can appreciate the strategic and symbolic significance of cultural spaces and their role in coalescing places and sustaining relationships between people. The impressive depth and span of evidence gathered demonstrates how we could invest more wisely with a greater common understanding of the processes that prepare the ground for inspiring, robust and sustainable cultural buildings. The case studies demonstrate how this is done well.” Juliet Bidgood, Architect and RIBA Client Adviser.

This practical guide to cost studies of buildings has been updated and revised throughout for the 6th edition. New developments in RICS New Rules of Measurement (NRM) are incorporated throughout the book, in addition to new material on e-business, the internet, social media, building information modelling, sustainability, building resilience and carbon estimating. This trusted and easy to use guide to the cost management role: Focuses on the

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importance of costs of constructing projects during the different phases of the construction process Features learning outcomes and self-assessment questions for each chapter Addresses the requirements of international readers From introductory data on the construction industry and the history of construction economics, to recommended methods for cost analysis and post-contract cost control, *Cost Studies of Buildings* is an ideal companion for anyone learning about cost management.

Spon's Asia Pacific Construction Costs Handbook includes construction cost data for twenty countries. This new edition has been extended to include Pakistan and Cambodia. Australia, UK and America are also included, to facilitate comparison with construction costs elsewhere. Information is presented for each country in the same way, as follows: key data on the main economic and construction indicators. an outline of the national construction industry, covering structure, tendering and contract procedures, materials cost data, regulations and standards labour and materials cost data measured rates for a range of standard construction work items approximate estimating costs per unit area for a range of building types price index data and exchange rate movements against £ sterling, \$US and Japanese Yen. The book also includes a Comparative Data section to facilitate country-to-country comparisons. Figures from the national sections are grouped in tables according to national indicators, construction output, input costs and costs per square metre for factories, offices, warehouses, hospitals, schools, theatres, sports halls, hotels and housing. This unique handbook will be an essential reference for all construction professionals involved in work outside their own country and for all developers or multinational companies assessing comparative development costs. The book reveals how green buildings are currently being adapted and applied in developing

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countries. It includes the major developing countries such as China, Indonesia, Malaysia, Thailand, Pakistan, Cambodia, Ghana, Nigeria and countries from the Middle East and gathers the insights of respected green building researchers from these areas to map out the developing world's green building revolution. The book highlights these countries' contribution to tackling climate change, emphasising the green building benefits and the research behind them. The contributing authors explore how the green building revolution has spread to developing countries and how national governments have initiated their own green building policies and agendas. They also explore how the market has echoed the green building policy, and how a business case for green buildings has been established. In turn, they show how an international set of green building standards, in the form of various techniques and tools, has been incorporated into local building and construction practices. In closing, they demonstrate how the developing world is emerging as a key player for addressing the energy and environmental problems currently facing the world. The book helps developers, designers and policy-makers in governments and green building stakeholders to make better decisions on the basis of global and local conditions. It is also of interest to engineers, designers, facility managers and researchers, as it provides a holistic picture of how the industry is responding to the worldwide call for greener and more sustainable buildings.

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