



SECOND EDITION

Refurbishment and Upgrading of Buildings

CHRISTOPHER GORSE AND DAVID HIGHFIELD



Springer

Refurbishment And Upgrading Of Buildings

**F. Pacheco-Torgal, Claes-Göran
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Refurbishment and Upgrading of Buildings David Highfield, Christopher Gorse, 2009-05-28 A detailed guide to the technical aspects of refurbishing and upgrading buildings providing solutions to a range of problems challenges and issues with technical drawings and case studies Essential purchase for all construction professionals engaged in this kind of work and students of construction surveying and architecture Refurbishment and Upgrading of Buildings: Why refurbishment? ; 2. Upgrading the fire-resistance of existing elements ; 3. Upgrading internal surfaces ; 4. Upgrading the thermal performance of existing elements ; 5. Upgrading the acoustic performance of existing elements ; 6. preventing moisture and dampness within buildings ; 7. Timber decay and remedial treatments ; 8. Strengthening of existing timber floors ; 9. heavy-lifting systems ; 10. Underpinning systems ; 11. Facade retention ; 12. Index of products and systems ,2000

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Structural Studies, Repairs and Maintenance of Heritage Architecture XII C. A. Brebbia, 2011 Architectural heritage is now recognised to be of great importance to the historical identity of a region town or nation In order to take care of that heritage we need to look beyond borders and share experiences and knowledge regarding heritage preservation This book contains papers covering the latest advances in this field presented at the twelfth and latest in a series of now biennial conferences that began in 1989 The series is recognised as the most important conference on the topic It covers such topics as Heritage architecture and historical aspects Regional architecture Preservation of archaeological sites Maritime heritage Heritage masonry buildings Adobe restorations Wooden structures Structural issues and restoration Seismic vulnerability and vibrations Assessment retrofitting and reuse of heritage buildings Surveying and monitoring Material characterisation

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Adaptive Reuse of the Built Heritage Bie Plevoets,Koenraad Van Cleempoel,2019-04-18 Adaptive reuse the process of repairing and restoring existing buildings for new or continued use is becoming an essential part of architectural practice As mounting demographic economic and ecological challenges limit opportunities for new construction architects increasingly focus on transforming and adapting existing buildings This book introduces adaptive reuse as a new discipline It provides students and professionals with the understanding and the tools they need to develop innovative and creative approaches helping them to rethink and redesign existing buildings a skill which is becoming more and more important Part I outlines the history of adaptive reuse and explains the concepts and methods that lie behind new design processes and contemporary practice Part II consists of a wide range of case studies representing different time periods and strategies for

intervention Iconic adaptive reuse projects such as the Caixa Forum in Madrid and the Rijksmuseum in Amsterdam are discussed alongside less famous and spontaneous transformations such as the Kunsthaus Tacheles in Berlin in addition to projects from Italy Spain Croatia Belgium Poland and the USA Featuring over 100 high quality color illustrations Adaptive Reuse of the Built Heritage is essential reading for students and professionals in architecture interior design heritage conservation and urban planning

Spon's Architects' and Builders' Price Davis Langdon,2011-01-25 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 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

SDGs in Construction Economics and Organization Göran Lindahl,Stefan Christoffer Gottlieb,2023-07-19 This book examines how research in construction economics and organization contributes to the achievement of the SDGs Featuring selected contributions from the 11th Nordic Conference on Construction Economics and Organisation CREON 2022 held in Copenhagen Demark and Malm Sweden the contributions of this book explore the ways in which research in construction economics and organization assists in building resilient infrastructure fostering green innovations and contributes to sustainable economic growth Each contribution relates to one or more individual SDG and describes how the research contributes to the understanding of construction management and economics

The Sustainable Renovation of Buildings and Neighbourhoods Pilar Mercader-Moyano,2015-05-20 The Sustainable Renovation of Buildings and Neighborhoods is a collection of papers

presented at the International Congress of Sustainable Construction and Eco efficient Solutions This event has established itself as a forum for meeting academics from around the world researchers and professionals of the construction sector in which environmental information is shared with a multidisciplinary context and which involves participants from different areas of the construction process The congress brings together development proposals through a shared vision of environmental sustainability and presents alternative solutions to problems through technical presentations and trainings in order to minimize the environmental impact caused by the construction sector This monograph celebrates the event's second international edition and its fourth national edition The volume contains selected articles written by the participants Readers will find information about interesting new developments and concepts on Energy retrofitting in older buildings Tools to determine and measure environmental impact and sustainability indicators Economic cost based revaluation of buildings through the viability of eco efficient solutions Reduction of the consumption of material and energy resources and in CO₂ emissions Sustainability research based on the renovation of urban areas The studies in this book provide real examples from different countries Argentina and Spain for example The Sustainable Renovation of Buildings and Neighborhoods is a useful reference for researchers and professional architects involved in sustainable development environmental rehabilitation and the construction industry

Sustainable Retrofitting of Commercial Buildings Richard Hyde, Nathan

Groenhou, Francis Barram, Ken Yeang, 2015-01-28 Despite recent improvements in energy efficiency being made in new build it is important that the existing commercial building sector also take action to meet emission reduction targets The objectives and challenges of such action will reduce the risk of the sector becoming obsolete due to high energy use and poor environmental performance This book presents a theory based practice support methodology to deal with sustainable retrofitting opportunities for existing commercial buildings in warm climates using bioclimatic design as the basis The book has four main parts focusing on eco design and renovation bioclimatic retrofitting technological and behavioural change and case studies of retrofitting exemplars In the first part the context of climate change effects on design and renovation at the city scale is discussed The second part looks at bioclimatic retrofitting as a design guide for existing buildings highlighting the significance of architectural design and engineering systems for energy performance The technological and behavioural contexts of the existing building sector policies modelling monitoring and trend analysis in respect to energy and environmental performance are covered in part three The final part gives some case studies showing the effectiveness of strategies suggested for effective environmental performance This book is a must have guide for all involved in the design and engineering of retrofitting projects in warm climates

Cost-Effective Energy-Efficient Methods for Refurbishment and Retrofitting of Buildings F. Pacheco-Torgal, Claes-Göran Granqvist, Giuseppe Peter Vanoli, Nicola Bianco, Jarek Kurnitski, 2025-01-11 Cost Effective Energy Efficient Methods for Refurbishment and Retrofitting of Buildings Materials Technologies Optimization and Case Studies provides up to date knowledge on this important research field Divided over

three key parts the book's chapters cover materials and innovative technologies optimization strategies and actual case study applications that highlight the impact of different climatic conditions social factors and the economic specifications of each retrofit process Emphasis is placed on cost efficiency which is key in any energy retrofit process Taking into consideration key changes in the Energy Performance of Buildings Directive EPBD and the European Union Green Deal on Refurbishment and Renovation this book will be a valuable reference resource for materials scientists architects civil engineers and all those working on cost effective and energy efficient retrofitting and building refurbishment Discusses cost effective energy efficient methods for the refurbishment of existing buildings using state of the art technologies Includes detailed case studies that explain various methods and Net Zero Energy Explains optimal analysis and prioritization of cost effective strategies

Economics of Property Management: The Building as a Means of Production Herman Tempelmans Plat, Frank Heynick, 2012-06-25 The economic analysis of a building is a complex subject and traditionally it has focused on a single aspect of the structure or a single part of the construction process Dr Tempelmans Plat is a leading proponent of a new methodology which focuses on the building as a stock of services to be supplied over a long lifespan This method is more realistic since it takes into account the changes in use and the adaptation of the building over its life This book will be the first to make this method comprehensible to a wide audience of postgraduate students and professionals in the field of construction economics

Cost C16, Improving the Quality of Existing Urban Building Envelopes Roberto Di Giulio, Zivko Bozinovski, L. G. W. Verhoef, 2007 As a result of changes in the composition of the population society changes continuously with respect to various factors including age structure family composition and the availability of energy Changes lead to situations that are reflected in the commissioning of buildings which is gradually shifted from new construction to the reuse and renovation of existing buildings The adaptation of buildings often requires the modification of facades and the construction behind The scope of this action within the COST Transport and Urban Development Domain is to improve techniques and methods for envelopes of buildings constructed during the last half of the 20th century in the COST countries In other words it is directed on the building envelopes of the so called non traditional buildings This publication is based on a support by COST an intergovernmental European framework for international cooperation between nationally funded research activities COST creates scientific networks and enables scientists to collaborate in a wide spectrum of activities in research and technology

Sustainable Construction Processes Steve Goodhew, 2016-04-13 This book explores the concepts and practicalities that lead to sustainable construction It breaks new ground by providing the reader with the underlying principles of how to build sustainably and then assesses many of the tools required for the task From energy to materials and from procurement to operation all aspects play their part in turning a theoretically sustainable building project into a reality There are many guidelines for the designer on how to maximise the sustainability of buildings but this resource text supplements these by focusing on the construction and operational aspects of sustainable buildings as well as some of the

more fundamental design related considerations Offers an excellent text for those learning to construct design and operate sustainable buildings Covers the drivers for sustainable construction definitions historical impacts climate change and global regional and individual responses enables the construction professional to achieve optimum solutions both in design process and the aftercare of buildings evaluates the effectiveness of different renewable technologies and provides guidance on the practicalities of their use Alerts the reader to future trends in this field **Building Adaptation** James Douglas, 2006
Introduction Feasibility Principles of Building Conversion Adaptive fuses Lateral extensions Vertical extensions Structural alterations Principles of refurbishment Further aspects of refurbishment Sustainable adaptation Implementation Appendices

Rethinking Building Skins Eugenia Gasparri, Arianna Brambilla, Gabriele Lobaccaro, Francesco Goia, Annalisa Andaloro, Alberto Sangiorgio, 2021-12-05 Rethinking Building Skins Transformative Technologies and Research Trajectories provides a comprehensive collection of the most relevant and forward looking research in the field of fa ade design and construction today with a focus on both product and process innovation The book brings together the expertise creativity and critical thinking of more than fifty global innovators from both academia and industry to guide the reader in translating research into practice It identifies new opportunities for the construction sector to respond to present challenges towards a more sustainable efficient connected and safe future Introduces the reader to the role of fa ades with respect to the main challenges ahead Provides an overview of the major fa ade technological advancements throughout history and identifies prospective research trajectories Includes interviews with key industry players from different backgrounds and expertise Showcases a comprehensive range of leading research topics in the field organised by product and process innovation Covers major innovations across the value chain including fa ade design fabrication construction operation and maintenance and end of life Contributes towards the definition of an international research agenda and identifies emerging market opportunities for the fa ade industry

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