



SECOND EDITION

# Refurbishment and Upgrading of Buildings

CHRISTOPHER GORSE AND DAVID HIGHFIELD



Springer

# Refurbishment And Upgrading Of Buildings

**Stephen Emmitt**



## **Refurbishment And Upgrading Of Buildings:**

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

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Highfield, Christopher Gorse, 2009-05-28 A detailed guide to the technical aspects of refurbishing and upgrading buildings this book provides solutions to a range of problems challenges and issues and is essential reading for all students studying building refurbishment at all levels Includes existing floor and wall strengthening facade retention introduction of new floors timber decay problems fire resistance prevention of moisture and damp upgrading thermal and acoustic performance This new edition has been fully updated to include new technological information and covers new areas such as stonework restoration and repair upgrading of c1960 framed buildings refurbishment logistics and case studies Refurbishment of Prefabricated Buildings by Innovative Strategies Angelo Bertolazzi, Giorgio Croatto, Umberto

Turrini, 2024-02-01 T00:00:00+01:00 445 35 **Building Surveyor's Pocket Book** Melanie Smith, Christopher Gorse, 2021-05-26 This handy book brings together a wealth of useful information that building surveyors need on site or in the office It provides clear guidance and fundamental principles in key practice areas such as building pathology building performance and building forensics The book is not overly bound by the regulation and legislation of one region and the principles can be applied internationally Compact portable and easy to use the Building Surveyor's Pocket Book helps surveyors anyone studying for their RICS APC and students get access to the basics fast **Spon's Architects' and**

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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 and problems Simulation and modelling New techniques and materials Non destructive techniques Experimental validation and verification Performance and maintenance Environmental damage Social and economic aspects and Guidelines codes and regulations

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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

### **Sustainable Retrofitting of Commercial**

**Buildings** Richard Hyde,Nathan Groenhout,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

**The Handbook of Sustainable Refurbishment: Non-Domestic Buildings** Baker Nick, 2009-09-02 The refurbishment of existing buildings is a crucial yet often neglected subject within sustainable architecture attention is usually focused on new buildings Many old buildings waste large amounts of energy and provide poor internal conditions for occupants through poor lighting poor ventilation solar penetration and glare and poor control of heating and cooling Demolition is an option but the refurbishment alternative is increasingly seen as more sustainable in terms of architectural value materials use neighbourhood disruption and waste disposal In addition the potential impact of low energy refurbishment is much greater than that for new build since there are many more buildings already in existence than will be built in the next 10 20 years the period over which many CO2 emission targets apply The Handbook of Sustainable Refurbishment Non Domestic Buildings offers architects engineers and a wide range of building professionals practical advice illustrated by real examples It moves from principles of sustainable refurbishment to specific design and engineering guidance for a variety of circumstances It emphasises the need for an integrated approach by showing how refurbishment measures interact with one another and with the occupants and how performance is ultimately influenced by this interaction

*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 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 Denmark and Malmö 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 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 facade 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 facades with respect to the main challenges ahead Provides an overview of the major facade 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 facade 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 facade industry *Sustainable Refurbishment* Sunil Shah, 2012-07-16 *Sustainable Refurbishment* Governments across the EU and developed countries are increasingly being directed towards improving existing built stock as a key ingredient to meeting climate change challenges This guide to green retro fitting for corporate real estate facility managers and occupiers struggling to reduce their buildings carbon footprint will help in the planning and management of a sustainable refurbishment programme *Sustainable Refurbishment* is structured into four parts the first gives the context together with an overview on sustainable development and refurbishment projects separately and the value gained from a sustainable refurbishment Part Two details the regulatory and financial drivers together with market pressures and provides an overview of where this is leading giving the implications for sustainable refurbishment Part Three provides technical support on carbon measures helping to determine the feasibility of good practices as part of the refurbishment Included is a

review of energy efficiency renewable and low carbon technologies and embodied carbon to enable lifecycle carbon calculations together with the necessary behavioural change aspects needed to embed the changes Linkages and benefits between the technologies will be highlighted Part Four reviews refurbishment from a wider environmental perspective understanding the challenges and opportunities that exist for particular developments from a materials water biodiversity and transport perspective Throughout the book checklists are provided on typical activities and best practice these are expanded through relevant case studies and examples to show case previous good practices and lessons learnt The book s structure allows a matrix approach with Parts Three and Four containing the technical information necessary to deliver sustainable refurbishment The book provides a much needed link between policy level commitment and detailed technical delivery This easily digestible and authoritative review of the key issues in green retro fitting is crucial for facilities managers building surveyors property managers owners and corporate real estate involved in sustainable refurbishment by offering the practical support needed to make it happen

OTHER BOOKS OF INTEREST Sustainable Practice for the Facilities Manager Shah 978 14051 35573 Delivering Sustainable Buildings A Practical Guide for Contractors to Low Carbon Energy Efficient and Renewable Technologies Malina 978 14051 94174 Facilities Change Management Finch 978 14051 53461 Enhancing Building Performance Mallory Hill et al 978 04705 57591

**The Handbook of Sustainable Refurbishment** Nick V. Baker, 2009 The refurbishment of existing buildings is a neglected subject within sustainable architecture attention is usually focused on new buildings Old buildings can use large amounts of energy and provide poor internal conditions for occupants They may have high heating demand poor lighting poor ventilation solar penetration and glare and poor control of heating and cooling Demolition is an option but the alternative of refurbishment is starting to be seen as more sustainable in terms of architectural value materials use neighborhood disruption and waste disposal Building new is more carbon intensive and carries many wider environmental impacts In addition the potential impact of low energy refurbishment is much greater than that for new build since there are many more existing buildings than will be built in the next 10 20 years the period over which many CO2 emission targets apply

Nearly Zero Energy Building Refurbishment Fernando Pacheco Torgal, Marina Mistretta, Artūras Kaklauskas, Claes G. Granqvist, Luisa F. Cabeza, 2013-10-22 The recast of the Energy Performance of Buildings Directive EPBD was adopted by the European Parliament and the Council of the European Union on 19 May 2010 For new buildings the recast fixes 2020 as the deadline for all new buildings to be nearly zero energy and even sooner for public buildings by the end of 2018 This book gives practitioner an important tool to tackle the challenges of building refurbishment towards nearly zero energy This book is welcome at this time and sets the scene for professionals whether practitioners or researchers to learn more about how we can make whether old or new buildings more efficient and effective in terms of energy performance

**InCIEC 2015** Marina Yusoff, Nor Hayati Abdul Hamid, Mohd Fadzil Arshad, Ahmad Kamil Arshad, Ahmad Ruslan Mohd Ridzuan, Haryati Awang, 2016-06-18 The special focus of these proceedings is on the areas of



infrastructure engineering and sustainability management They provide detailed information on innovative research developments in construction materials and structures in addition to a compilation of interdisciplinary findings combining nano materials and engineering The coverage of cutting edge infrastructure and sustainability issues in engineering includes earthquakes bioremediation synergistic management timber engineering flood management and intelligent transport systems

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## **Table of Contents Refurbishment And Upgrading Of Buildings**

1. Understanding the eBook Refurbishment And Upgrading Of Buildings
  - The Rise of Digital Reading Refurbishment And Upgrading Of Buildings
  - Advantages of eBooks Over Traditional Books
2. Identifying Refurbishment And Upgrading Of Buildings
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Refurbishment And Upgrading Of Buildings
  - User-Friendly Interface
4. Exploring eBook Recommendations from Refurbishment And Upgrading Of Buildings
  - Personalized Recommendations
  - Refurbishment And Upgrading Of Buildings User Reviews and Ratings
  - Refurbishment And Upgrading Of Buildings and Bestseller Lists
5. Accessing Refurbishment And Upgrading Of Buildings Free and Paid eBooks
  - Refurbishment And Upgrading Of Buildings Public Domain eBooks
  - Refurbishment And Upgrading Of Buildings eBook Subscription Services
  - Refurbishment And Upgrading Of Buildings Budget-Friendly Options
6. Navigating Refurbishment And Upgrading Of Buildings eBook Formats

- ePub, PDF, MOBI, and More
- Refurbishment And Upgrading Of Buildings Compatibility with Devices
- Refurbishment And Upgrading Of Buildings Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Refurbishment And Upgrading Of Buildings
  - Highlighting and Note-Taking Refurbishment And Upgrading Of Buildings
  - Interactive Elements Refurbishment And Upgrading Of Buildings
- 8. Staying Engaged with Refurbishment And Upgrading Of Buildings
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Refurbishment And Upgrading Of Buildings
- 9. Balancing eBooks and Physical Books Refurbishment And Upgrading Of Buildings
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Refurbishment And Upgrading Of Buildings
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Refurbishment And Upgrading Of Buildings
  - Setting Reading Goals Refurbishment And Upgrading Of Buildings
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Refurbishment And Upgrading Of Buildings
  - Fact-Checking eBook Content of Refurbishment And Upgrading Of Buildings
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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