MAKING YOUR HOME SUSTAINABLE

A GUIDE TO RETROFITTING



DEREK WRIGLEY

Making Your Home Sustainable A Guide To Retrofitting

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Making Your Home Sustainable A Guide To Retrofitting:

Making Your Home Sustainable Derek F. Wrigley, 2005-01-01 In 1991 architect and solar consultant Derek Wrigley moved into a townhouse in Canberra and faced a new design challenge how to retrofit an existing suburban house to use renewable energies rather than fossil fuels Convinced that building design could do more to achieve sustainability he developed a series of innovative devices to improve the energy efficiency of the house and modified the existing design to work harmoniously with the local climate The house now generates its own solar electricity ventilates and cools itself without cost or pollution and treats its own grey water for irrigating the garden It quickly attracted visitors who were keen to learn how to apply these sustainable designs to their own homes and wanted to know where to begin Making Your Home Sustainable is a practical and easy to follow guide for homeowners builders and architects who are concerned about the effects of climate change and environmental degradation and want to do something about reversing the trend Derek Wrigley shows how simple modifications to existing homes can help to reduce emissions of greenhouse gases and utilise natural rather than imported energies and resources He clearly explains how to Identify retrofitting potential when buying a home Rationalise energy and water consumption Provide sunshine in southern rooms warmth in winter and cool air in summer Use ventilation and insulation to reduce the need for artificial heating or cooling Install a solar hot water system Utilise wasted sunlight to heat and illuminate your home Create a beautiful landscape which also contributes to your household energy efficiency and Install reflectors sunshades water recycling heliostats double glazing photovoltaics water tanks and other energy saving and water saving devices With detailed descriptions 46 photographs and over 100 diagrams Making Your Home Sustainable is the retrofitter's bible an ideal practical guide for anyone who wants to make their home more comfortable and save money on energy bills while increasing the value of their house and addressing the causes of global warming Making Your Home Sustainable Derek F. Wrigley, 2012-04-01 Sustainable ideas using natural energies to improve existing houses in a cool temperate climate In 1991 architect and solar consultant Derek Wrigley moved into a townhouse in Canberra and faced a new design challenge how to retrofit an existing suburban house to use renewable energies rather than fossil fuels Convinced that building design could do more to achieve sustainability he developed a series of innovative devices to improve the energy efficiency of the house and modified the existing design to work harmoniously with the local climate The house now generates about 15 per cent more electricity than it consumes and the photovoltaic system should have a pay back period of just under nine years The house ventilates and cools itself without any electrical assistance or air conditioning and greywater nourishes the garden Derek has been advised that for every dollar spend on retrofitting he is adding at least double that amount to the house s market value Making Your Home Sustainable is a practical and easy to follow guide for homeowners builders and architects who are concerned about the effects of climate change and environmental degradation and who want to do something about reversing the trend Derek Wrigley shows how

simple modifications to existing homes can help to reduce emissions of greenhouse gases and utilise natural rather than imported energies and resources He clearly explains how to Identify retrofitting potential when buying a home Rationalise energy and water consumption Provide sunshine in southern rooms warmth in winter and cool air in summer Use ventilation and insulation to reduce the need for artificial heating or cooling Install a solar hot water system Utilise wasted sunlight to heat and illuminate your home Create a beautiful landscape which also contributes to your household energy efficiency and Install reflectors sunshades water recycling heliostats double glazing photovoltaics water tanks and other energy saving and water saving devices With detailed descriptions and around 150 photographs and diagrams this revised edition of MAKING YOUR HOME SUSTAINABLE is the retrofitter s bible an ideal practical guide for anyone who wants to make their home more comfortable and save money on energy bills while increasing the value of their house and addressing the causes of global warming Sustainable Home Design: A Comprehensive Guide to Eco-Friendly Living Pasquale De Marco, 2025-07-25 In this comprehensive guide to sustainable home design we explore the principles and practices of creating eco friendly and energy efficient living spaces Whether you re building a new home from scratch or looking to retrofit your existing one this book will provide you with the knowledge and inspiration you need to make informed decisions that benefit both your family and the planet As we face the challenges of climate change and resource depletion it s more important than ever to embrace sustainable living practices Our homes are a major part of our lives and they have a significant impact on our environmental footprint By choosing sustainable design principles we can reduce our energy consumption water usage and carbon emissions while also creating healthier and more comfortable living spaces This book covers a wide range of topics from the basics of energy efficiency to the latest advancements in renewable energy technologies We will explore innovative building materials water conservation methods and green landscaping techniques We will also discuss the importance of indoor air quality natural lighting and biophilic design Whether you re a homeowner architect builder or simply someone who is interested in living a more sustainable lifestyle this book has something to offer you We hope that the information and ideas presented here will empower you to create a home that is both beautiful and eco conscious Together we can build a more sustainable future for ourselves and for generations to come Inside this book you will find A comprehensive overview of the principles and practices of sustainable home design Detailed information on energy efficient construction methods renewable energy sources and water conservation techniques Guidance on choosing sustainable building materials and finishes Tips for creating healthy and comfortable living spaces Strategies for reducing your home s environmental impact And much more With its clear and concise writing style helpful illustrations and practical advice this book is an essential resource for anyone who wants to create a more sustainable home If you like this book write a review The Owner Builder Leeza Sipek.Hazel Foote, Matthew Sipek, 2012-11-15 Building your own home could save you thousands of dollars The Owner Builder is an easy to understand step by step guide for people who want to build their dream home in a financially responsible manner From

choosing a block of land to decorating the inside of the house this book guides the reader through the entire building process The authors share their personal experiences with photos of the building process in 68 steps They include tips and hints on the approval process construction ideas and how to avoid mistakes They also uncover potential hidden costs and offer other ways to save money if you don't have time to manage the construction yourself such as hire a project manager which is cheaper than a contract builder Renovators DIY enthusiasts and anyone considering building a home will find a wealth of practical information in this book Even if you are hiring a builder this book can help you understand what is involved in The Environmental Design Pocketbook Sofie building a home and what to expect at each stage of the project Pelsmakers, 2019-10-23 The Environmental Design Pocketbook 2nd ed places the information you need for sustainable low energy building design at your fingertips Packed with diagrams tools and tips it cuts through the complex mass of technical data and legislation that faces the designer and distils all the key guidance into a single reference that is guick easy to use and points to the facts figures and performance data that are most important This 2nd edition is now fully up to date with the latest Building Regulations Part L and F legislation England and Wales RIBA Plan of Work 2013 new information on the Green Deal and Zero Carbon and contains revised references and further reading sections throughout Whether used in the classroom office or on site the book guides the designer through the entire process from the fundamentals to the building details From future proofing for a changing climate to rainwater harvesting retrofit and zero carbon technologies the Pocketbook has got it covered Revitalize and Renew: A Comprehensive Guide to Retrofit and Renovation Projects Charles Nehme, Purpose of the Book In today s world where sustainability and energy efficiency have become paramount the significance of retrofitting and renovation has never been more relevant This book Revitalize and Renew A Comprehensive Guide to Retrofit and Renovation Projects is designed to be a definitive resource for anyone looking to breathe new life into existing structures Whether you are a homeowner eager to modernize your living space an architect aiming to balance aesthetics with functionality or a contractor seeking to enhance your expertise this book will guide you through the process of transforming old outdated buildings into efficient sustainable and beautiful spaces The primary purpose of this book is to equip you with the knowledge and tools necessary to make informed decisions about retrofit and renovation projects It aims to demystify the processes involved provide actionable steps and inspire creativity in the pursuit of both functional and aesthetic improvements By the end of this book you will be well prepared to embark on your own renovation journey whether it involves minor updates or a complete overhaul Scope of the Book Retrofit and renovation are often used interchangeably yet they serve different purposes and involve distinct processes This book clearly distinguishes between the two while also showing how they can be complementary in creating modern efficient buildings that respect their historical roots Retrofit typically involves the addition of new technology or features to an existing building with a strong focus on improving energy efficiency safety and resilience to environmental challenges Examples include upgrading

insulation installing solar panels or reinforcing structures against seismic activity Renovation on the other hand focuses more on restoring or improving the physical aspects of a building such as its structure interiors and exteriors often for aesthetic purposes modernization or to repair damage In this book we will explore both concepts in depth providing detailed guidance on a wide range of projects from small scale updates to large scale transformations. The book is divided into several key sections Foundations of Retrofitting and Renovation A thorough exploration of the basics including the differences between retrofitting and renovation the initial assessments required and how to plan and design a project that meets your goals Key Retrofit and Renovation Projects A hands on guide to specific projects including structural enhancements energy efficiency improvements electrical and plumbing upgrades and both interior and exterior renovations Sustainability and Future Proofing As environmental concerns grow this section focuses on green retrofitting strategies smart home technologies and designing for health wellness and long term sustainability Case Studies and Practical Examples Real world examples and DIY project guides that provide inspiration and practical advice for various types of retrofit and renovation projects Managing and Completing Your Project A deep dive into project management budgeting financing and post renovation considerations to ensure that your project is successful from start to finish The Growing Importance of Retrofitting and Renovation The modern built environment is facing unprecedented challenges from climate change to aging infrastructure Retrofitting and renovation offer solutions that not only enhance the functionality and safety of buildings but also contribute to environmental sustainability Retrofitting in particular has gained momentum as a crucial strategy for reducing energy consumption and lowering carbon footprints aligning with global efforts to combat climate change Moreover renovating existing buildings rather than constructing new ones can preserve historical and cultural values reduce the demand for new materials and minimize waste As cities become more crowded and the need for housing and commercial space grows the efficient use of existing structures through thoughtful renovation becomes increasingly important Who Should Read This Book This book is intended for a diverse audience Homeowners who want to update their homes improve energy efficiency or increase property value Architects and Designers seeking inspiration and technical knowledge to incorporate into their projects Contractors and Builders looking to expand their skills and expertise in retrofitting and renovation DIY Enthusiasts interested in undertaking their own renovation projects with confidence Real Estate Professionals aiming to understand the impact of retrofitting and renovation on property value and marketability Conclusion As you embark on the journey of retrofitting or renovating a building this book will serve as your comprehensive guide It will help you navigate the complexities of these projects offering practical advice inspiring ideas and a roadmap to success Whether you are preserving the charm of a historic home upgrading an outdated office building or making your home more energy efficient Revitalize and Renew is here to support you every step of the way Ethical Consumption Tania Lewis, Emily Potter, 2013-01-11 A not so quiet revolution seems to be occurring in wealthy capitalist societies supermarkets selling guilt free Fairtrade products lifestyle TV gurus

exhorting us to eat less buy local and go green neighbourhood action groups bent on swopping not shopping And this is happening not at the margins of society but at its heart in the shopping centres and homes of ordinary people Today we are seeing a mainstreaming of ethical concerns around consumption that reflects an increasing anxiety with and accompanying sense of responsibility for the risks and excesses of contemporary lifestyles in the global north This collection of essays provides a range of critical tools for understanding the turn towards responsible or conscience consumption and in the process interrogates the notion that we can shop our way to a more ethical sustainable future Written by leading international scholars from a variety of disciplinary backgrounds and drawing upon examples from across the globe Ethical Consumption makes a major contribution to the still fledgling field of ethical consumption studies This collection is a must read for anyone interested in the relationship between consumer culture and contemporary social life Handbook Roger Hunt, Marianne Suhr, 2019-09-17 How can we make old houses energy efficient without devaluing future sustainability And how can we do so without compromising their appeal and character This practical and essential guide to retrofitting for energy efficiency seeks to provide answers to this and other questions homeowners of old houses are asking Whether your house is medieval and timber framed or a Georgian Victorian or Edwardian terrace it can be made more energy efficient and sustainable This practical comprehensive and fully illustrated handbook will show you how Revised and updated throughout and with a foreword by Kevin McCloud Old House Eco Handbook includes chapters on the building envelope roofs and ceilings windows and doors walls floors paints energy air and water plus a brand new chapter on retrofit materials In association with The Society for the Protection of Ancient Buildings this is a must have for owners of old houses looking to make their homes more energy efficient and sustainable Creating Capacity and Capability: Embracing Advanced Technologies and Innovations for Sustainable Future in Building Education and Practice Monty Sutrisna, Mostafa Babaeian Jelodar, Niluka Domingo, An Le, Ravindu Kahandawa, 2025-07-19 This three volume book is the proceeding of the 46th Australasian Universities Building Education Association AUBEA 2023 Conference which brings together papers on construction and built environment education and practice This particular conference theme Creating Capacity and Capability Embracing Advanced Technologies and Innovations for Sustainable Future in Building Education and Practice is closely related to a flagship national research programme funded by the Government of New Zealand known as the CanConstructNZ research programme aiming to balance the capacity and capability in the construction industry and the national pipeline of construction projects The capacity and capability of our construction industry in fulfilling the construction needs of the whole nation are reflected in the national pipeline of construction projects and have long been recognised as one of the main challenges facing the construction sector The practices and education of building and construction play an important role in determining the capacity and capability of the construction industry Within the context of achieving sustainable future and embracing advanced technologies to create capacity and capability in the construction

sector various concepts research and innovative development have emerged and taken place This particular conference theme has facilitated more in depth discourses and discussions on the latest ideas and innovation within the building and construction education and practice not only from the Australasian region but also from the wider international community including the USA the UK Brazil South Africa Nigeria China and Sri Lanka The contents of this book will be of interest to academic researchers industry professionals and policy makers alike **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 Integrated Design and Delivery Solutions Matthijs Prins, Robert Owen, 2010-12-07 Integrated Design and Delivery Solutions IDDS represent a significant new research trajectory in the integration of architecture and construction through the rapid adoption of new processes This book examines the ways in which collaboration and new methods of contracting and procurement enhance skills and improve processes in terms of lean and sustainable construction Based on high quality research and practice based examples that provide key insights into IDDS and its future potential this book surveys the technologies that are being employed to create more sustainable buildings with added value for clients stakeholders and society as whole Guide to Sustainability HowExpert, 2024-11-10 If you re eager to embrace an eco friendly lifestyle adopt sustainable habits and live in harmony with the planet then HowExpert Guide to Sustainability is the resource for you This handbook provides practical tips inspiring ideas and actionable strategies to help you reduce your environmental impact Whether you re just starting or refining existing practices this guide covers every key aspect of green living empowering you to make lasting positive changes From adopting simple daily routines to implementing long term sustainable strategies this book offers a clear step by step approach that s easy to follow Even small changes like using reusable products conserving energy or

reducing waste can have a meaningful impact Let this guide inspire you to take important steps toward a greener lifestyle contributing to a healthier planet for future generations Inside you ll discover Introduction Understand the basics of sustainability why it matters and how adopting an eco friendly mindset can transform your life Chapter 1 Building Eco Friendly Habits Learn simple ways to save energy reduce waste and conserve water Chapter 2 Green Lifestyle Essentials Embrace minimalism sustainably improve your home and explore eco friendly fashion Chapter 3 Sustainable Food and Nutrition Dive into plant based diets shop locally and cut food waste for a healthier planet Chapter 4 Conscious Consumption Support ethical brands make mindful purchases and creatively upcycle Chapter 5 Eco Friendly Transportation Lower your carbon footprint with public transit cycling and electric vehicles Chapter 6 Green Energy Solutions Transition to renewables adopt efficient appliances and make sustainable improvements Chapter 7 Water Conservation Harvest rainwater reuse greywater and practice water saving techniques Chapter 8 Reducing Waste Master the 5 R s Refuse Reduce Reuse Recycle Rot to minimize waste Chapter 9 Sustainable Gardening Cultivate organic gardens and support pollinators Chapter 10 Sustainable Finances Invest ethically budget smartly and plan for a greener future Chapter 11 Health Benefits of Sustainable Living Boost wellness with organic foods and eco friendly habits Chapter 12 Sustainable Parenting Raise eco conscious children and choose green products Chapter 13 Building Sustainable Communities Engage in local initiatives and support community projects Chapter 14 Environmental Advocacy Join causes advocate for change and inspire others Chapter 15 The Future of Sustainability Explore the latest innovations and technologies for a greener future Conclusion Reflect on your journey set new goals and commit to continuous improvement Appendices Access helpful resources DIY guides and practical tips to enhance your sustainability journey Why this guide is essential Practical strategies Simple ways to reduce your footprint and embrace sustainable living Comprehensive coverage Tips for beginners and seasoned enthusiasts alike Actionable steps Includes hands on projects guides and examples to adopt green habits Future focused insights Stay updated on the latest trends and eco friendly advancements Whether you re making small changes like reducing single use plastics or committing to a zero waste lifestyle this book empowers you to make impactful shifts Sustainable living not only benefits the planet but also enhances your health finances and overall well being Start your journey toward a greener life today This guide will support you each step of the way Get your copy of HowExpert Guide to Sustainability and join the movement for a healthier planet HowExpert publishes how to guides on all topics from A to Z **Real Estate and Sustainable Crisis** Management in Urban Environments Saija Toivonen, Sirkka Heinonen, Ira Verma, Raúl Castaño-Rosa, Sara Wilkinson, 2024-05-31 The aim of this book is to promote the dynamic resilience of societies by identifying analysing and exemplifying the role of space and land use in both anticipated and unanticipated primary and secondary crisis situations The book brings together the expertise of a unique team of researchers and methods from fields of futures studies land use planning social sustainability and wellbeing architecture spatial planning design and real estate economics and presents a

novel understanding of the direct and indirect impacts of possible crises in the space and land use context It goes on to discuss the concept of resilience and exemplifies potential solutions and offers a holistic and forward looking approach for crisis management through a lens of social sustainability and wellbeing making an important contribution to the promotion of wellbeing in the built environment especially in terms of land and residential space and building use This book does not only identify barriers and successful incentives in resilient crisis management but also discusses the role of different stakeholders e g households office workers real estate owners space occupants firms the public sector etc in crisis management Finally international case studies aiming to tackle the challenging landscape of future threats are presented along with novel tools to support the development of future policies regulations and management practices in the built environment which can increase the dynamic resilience of societies Overall this book is essential reading for decision makers in the public and private sectors urban developers space and spatial designers architects planners community stakeholders real estate investors facility managers and crisis and corporate responsibility managers A PDF version of this book is available for free in Open Access at www taylorfrancis com It has been made available under a Creative Commons Attribution 4 0 International The Ultimate Guide to Natural Farming and Sustainable Living Nicole Faires, 2016-01-19 A beautiful license comprehensive guide to going green and living sustainably Permaculture is an important but often misunderstood method of growing food and building homes in a manner that works with nature rather than against it to create beautiful healthy and useful gardens Blending ecology organic agriculture green home design appropriate technology and biology can be confusing and overwhelming but The Ultimate Guide to Natural Farming and Sustainable Living simplifies this vast field for practical application This is a hands on guide taking the beginner through each step of the design process so that anyone can apply permaculture principles to his or her life While the principles are simple the in depth topics cover every aspect of permaculture including building green homes and passive solar design growing edible plant communities and forest gardens using no till and natural farming methods creating microclimates for extended growing seasons raising livestock with ecological foraging techniques This is a common sense approach to sustainable living that creates a self sufficient and low effort home for the people that live there whether in the city or the country The Ultimate Guide to Natural Farming and Sustainable Living isn t a philosophy book or a dissertation on theory It is a step by step complete guide to every aspect of Making Your Church Sustainable Nigel Walter, 2024-09-30 With pressure on budgets and soaring energy permaculture costs this small book will be worth its weight in gold to every local church It offers expert advice that will equip non professionals to make informed decisions on making their church buildings more sustainable understand sustainability technologies help navigate changing permission processes and thus save time and money and serve the Anglican mark of mission to care for creation Nigel Walter demystifies the topic of sustainability and provides a wealth of practical advice and quick wins He includes quidance on developing a plan that suits your church improving your maintenance practices

alternative ways to heat your church where and how to get professional help navigating the new permission processes A helpful appendix lists numerous sources of further advice and guidance Comprehensive in scope authoritative in content practical in outlook and written in lively accessible language no church should be without a copy of this essential guide

Designing Zero Carbon Buildings Using Dynamic Simulation Methods Ljubomir Jankovic, 2017-06-23 In addition to the application of fundamental principles that lead to a structured method for zero carbon design of buildings this considerably expanded second edition includes new advanced topics on multi objective optimisation reverse modelling reduction of the simulation performance gap predictive control nature inspired emergent simulation leading to sketches that become alive and an alternative economics for achieving the sustainability paradigm The book features student design work from a Master s programme run by the author and their design speculation for a human settlement on Mars Tasks for simple simulation experiments are available for the majority of topics providing the material for classroom exercise and giving the reader an easy introduction into the field Extended new case studies of zero carbon buildings are featured in the book including schemes from Japan China Germany Denmark and the UK and provide the reader with an enhanced design toolbox to Beyond the Garden Barrett Williams, ChatGPT, 2024-06-27 Beyond the Garden Your stimulate their own design thinking Ultimate Guide to Sustainable Living Unlock the door to a more sustainable future with Beyond the Garden the comprehensive guide that will transform the way you think about everyday living This eBook is your go to resource for implementing eco friendly practices across all aspects of your life fostering a healthier planet for generations to come Dive into sustainable living right from the start with an insightful introduction that helps you understand what sustainability is and why it holds the key to our future Set meaningful green goals and take confident steps towards achieving them In Sustainable Food Choices discover how to make better decisions about what you eat with sections on organic farming local and seasonal foods and minimizing food waste Transitioning to a plant based diet Learn about the immense nutritional benefits the positive environmental impact and get practical tips for family friendly transitions For those looking to green up their homes the Eco Friendly Home Practices chapter covers everything from energy efficient appliances to water conservation techniques and non toxic cleaning products Gardening enthusiasts will relish the detailed sections on organic gardening composting and rainwater harvesting Reduce your household waste by embracing a zero waste lifestyle effective recycling and minimalist decluttering techniques When it comes to getting around explore the benefits of biking walking and using electric vehicles as well as carpooling and public transportation options Step into sustainable style with ethical clothing brands second hand shopping tips and ways to maintain your wardrobe in an eco friendly manner Personal care routines also get a green makeover with natural beauty products reducing bathroom plastic and DIY toiletries Connect with your community through shared urban gardens local environmental groups and Community Supported Agriculture CSA Explore cutting edge green energy solutions sustainable travel practices and water management techniques that conserve resources

Beyond the Garden also delves into sustainable building and renovation environmental education financial incentives digital sustainability and mindfulness practices that link personal well being with environmental health Understanding climate change and fostering personal and community resilience are paramount and this eBook concludes with visionary insights on future innovations and long term sustainability goals Start your journey Beyond the Garden and cultivate a lifestyle that harmonizes with nature and nurtures the planet Your path to sustainable living starts here The Ultimate Guide to Urban Farming Nicole Faires, 2016-11-15 How to maximize your food production in an urban environment The idea of bringing agriculture into the city has been promoted by many on both sides of the political fence proponents of sustainability and prevention of climate change as well as those who worry about government and social instability To address the urgent need for a shift in the way our food is produced The Ultimate Guide to Urban Farming offers a practical education in everything there is to know about city agriculture how to grow a lot of food in any kind of urban living situation from apartment to full scale commercial venture Subjects covered include Small scale vs large scale agriculture The economic social health and environmental impacts of urban farming Making the most of the space available The latest technologies and developments in agriculture including hydroponics vertical gardening and aguaponics Case studies and design concerns for community based farming The best plant species for cities and seasons Beekeeping and small animals Commercial agriculture and the business side of farming in a city environment This comprehensive guide will introduce readers to the rewarding possibilities of growing their own food as well as dispel the falsehood that says we need faraway factory farms to produce everything we eat

Transcending Humanitarian Engineering Strategies for Sustainable Futures Koumpouros, Yiannis, Georgoulas, Angelos, Kremmyda, Georgia, 2023-03-13 Engineering disciplines have a pivotal role to play in the solution of global humanitarian challenges enabling our society to take steps towards sustainable human development Engineering can be used as the catalyst for the change that the world needs from water supply to renewable energy provision engineering knowledge and application underpin the responses needed for us all to pursue a sustainable future Because the issue of humanitarianism is not just engineering problems there is a need to engage with professionals breakdown previously siloed approaches and obdurate practices and introduce interdisciplinary education and training to enhance combinational expertise Transcending Humanitarian Engineering Strategies for Sustainable Futures provides relevant theoretical frameworks and the latest empirical research findings in the area of humanitarian engineering as a means for future proofing our communities Covering topics such as disaster mitigation natural hazards and land use change this premier reference source is an excellent resource for engineers environmentalists sociologists anthropologists urban planners government officials students and educators of higher education non profit organizations researchers and academicians

Integrated Project Design Bárbara Rangel, Ana Sofia Guimarães, Jorge Moreira da Costa, João Pedro Poças Martins, 2023-06-30

Integrated Project Design Delivery is not new but in recent years it has been achieving the status of yet another acronym

more connected to its contractual details than to the actual meaning of the profound change in how work is to be developed. This book clarifies this situation by presenting several examples in academia research and practical design situations ranging from the use of old style expression media such as handmade drawings to comprehensive digitalisation processes. The IPD model is shown as an effective way to tackle the ever increasing challenges of balancing productivity with the urgent demands for designs that embrace decarbonisation net zero buildings energy efficiency modularisation and disassembly including lessons learned from Industrial Design IPD is a mindset that clashes with the traditional academic model of placing architecture and engineering in different and frequently opposite fields Actual examples of course syllabuses that disrupt this approach are also presented showing how wide collaboration from the early stages of the design process can improve the sought after result providing future professionals with a hands on experience of its efficiency as a work methodology

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Making Your Home Sustainable A Guide To Retrofitting Introduction

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