

C3 Waste processing for reuse, recovery or recycling

C4 Disposal

A1 Raw material extraction & supply

A2 Transport to manufacturing plant

A3 Manufacturing & fabrication

A4 Transport to site

A5 Construction & installation process

Building Life Cycle

C2 Transport to disposal facility

C1 Deconstruction & demolition

B6 Operational energy
B7 Operational water

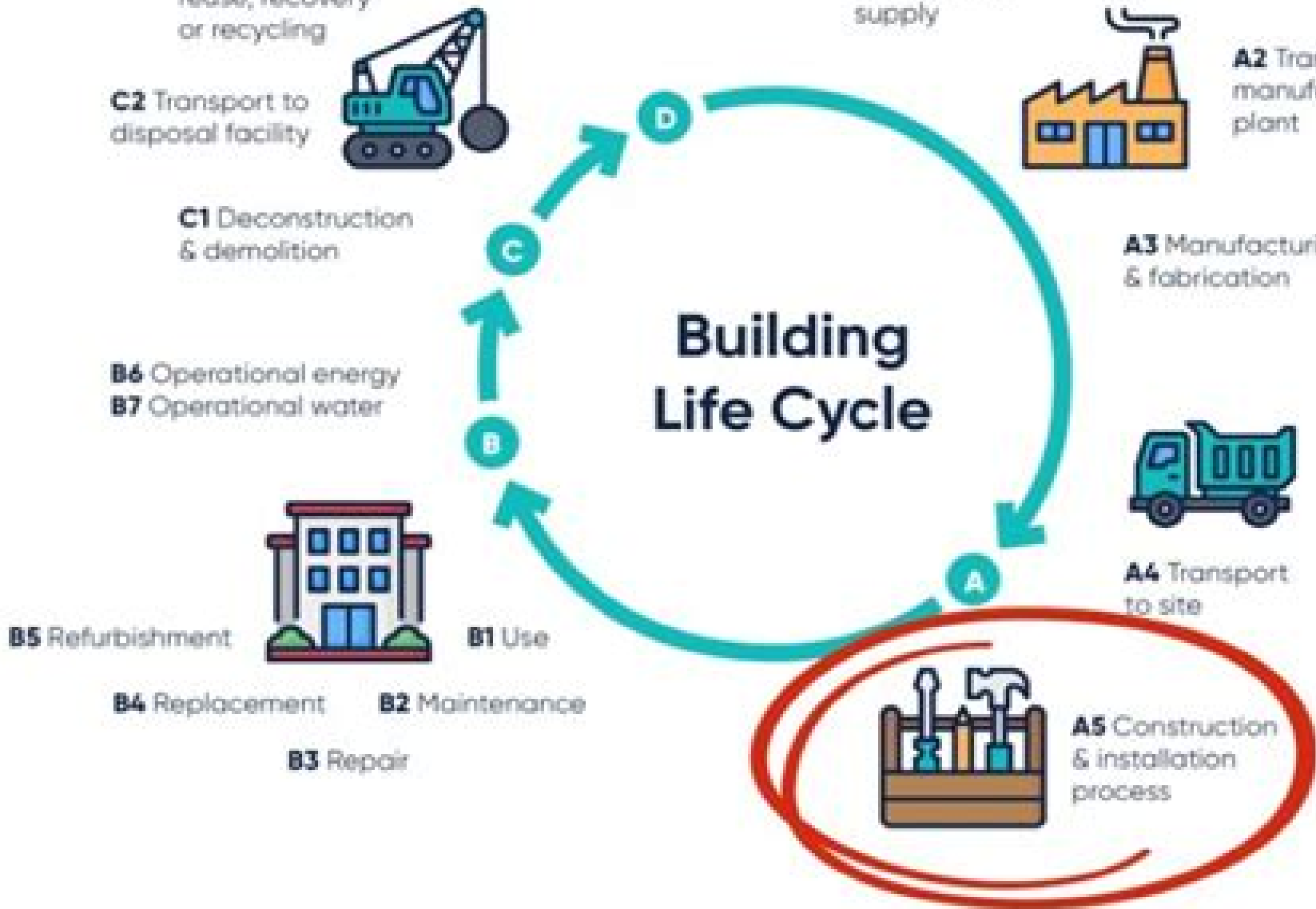
B5 Refurbishment

B4 Replacement

B3 Repair

B2 Maintenance

B1 Use



Life Cycle Analysis In Construction Industry The Case Of A University Building

**Shpresa Kotaji, Agnes
Schuurmans, Suzy Edwards**



Life Cycle Analysis In Construction Industry The Case Of A University Building:

Life Cycle Analysis in Construction Industry George Xanthakis, 2014-06-19 The aim of this book is to investigate the whole life cycle of a building regarded carbon emissions and energy consumption Buildings have considerable impact on environment from construction use maintenance and renewal to their demolition Considering their environmental economic and social impacts it is obvious that buildings are an important part of sustainable cities The current research has been performed using the LCA methodology which allows evaluating the environmental burdens related to the production and use of a specific product or service The studied building was the PG centre of HW University that is located in Riccarton Campus Edinburgh Results of the analysis found the great contribution of use stage as it concerns CO2 environmental impacts At the construction stage reinforced concrete plasterboard steel and bricks were the most significant material regarding quantities As it concerns carbon emissions steel is the most important material The study focused on the small distribution of end use phase and the credits associated with the use of recycled material since it can have a strong influence on the final environmental impacts *Life Cycle Analysis and Assessment in Civil Engineering: Towards an Integrated Vision* Robby Caspeele, Luc Taerwe, Dan Frangopol, 2018-10-31 This volume contains the papers presented at IALCCE2018 the Sixth International Symposium on Life Cycle Civil Engineering IALCCE2018 held in Ghent Belgium October 28 31 2018 It consists of a book of extended abstracts and a USB device with full papers including the Fazlur R Khan lecture 8 keynote lectures and 390 technical papers from all over the world Contributions relate to design inspection assessment maintenance or optimization in the framework of life cycle analysis of civil engineering structures and infrastructure systems Life cycle aspects that are developed and discussed range from structural safety and durability to sustainability serviceability robustness and resilience Applications relate to buildings bridges and viaducts highways and runways tunnels and underground structures off shore and marine structures dams and hydraulic structures prefabricated design infrastructure systems etc During the IALCCE2018 conference a particular focus is put on the cross fertilization between different sub areas of expertise and the development of an overall vision for life cycle analysis in civil engineering The aim of the editors is to provide a valuable source of cutting edge information for anyone interested in life cycle analysis and assessment in civil engineering including researchers practising engineers consultants contractors decision makers and representatives from local authorities

Life-cycle Assessment in Building and Construction Shpresa Kotaji, Agnes Schuurmans, Suzy Edwards, 2003 **Proceedings of the 24th International Symposium on Advancement of Construction Management and Real Estate** Gui Ye, Hongping Yuan, Jian Zuo, 2021-06-07 This book covers various current and emerging topics in construction management and real estate Papers selected in this book cover a wide variety of topics such as new type urbanization planning and construction of smart city and eco city urban rural infrastructure development land use and development housing market and housing policy new theory and practice of construction project management big data

application smart construction and BIM international construction i e belt and road project green building off site prefabrication rural rejuvenation and eco civilization and other topics related to construction management and real estate These papers provide useful references to both scholars and practitioners This book is the documentation of The 24th International Symposium on Advancement of Construction Management and Real Estate which was held in Chongqing China

Life Cycle Analysis Based on Nanoparticles Applied to the Construction Industry Pilar Mercader-Moyano,Paula Porras-Pereira,2025-03-27 This open access book describes in the recent years there has been a notable upsurge in the use of nanomaterials particularly within the construction and building sectors The incorporation of nanoparticles introduces noteworthy changes in the physico mechanical and physical chemical characteristics of construction materials Despite the acknowledged advantages of employing nanomaterials uncertainties persist regarding their widespread adoption in development and applications especially concerning potential environmental and human health implications A crucial aspect in thoroughly assessing the environmental impacts of nanoproducts is the imperative quantification of effects on ecosystems and human health throughout the entire life cycle of these products The indispensable utilization of a comprehensive tool such as Life Cycle Assessment becomes paramount in gaining a nuanced understanding of potential environmental and health challenges thereby ensuring the environmental sustainability of nanomaterials This academic publication endeavours to provide nanoproduct manufacturers construction industry professionals and waste managers with the necessary knowledge to comprehend the environmental and health impacts associated with the manufacturing application and disposal processes of nanoproducts used in the construction industry This contribution aims to enhance their personal and professional development consequently bolstering their employability at the European level A thorough comprehension of potential releases throughout the entire life cycle of nanoproducts and their potential effects is imperative for ensuring the safe and sustainable utilization of these innovative materials The application of life cycle thinking emerges as a pivotal component in appropriately evaluating the potential impacts associated with nanomaterial releases

Sustainability in Energy and Buildings John Littlewood,Robert J. Howlett,Alfonso Capozzoli,Lakhmi C. Jain,2019-10-26 This volume contains the proceedings of the 11th KES International Conference on Sustainability and Energy in Buildings 2019 SEB19 held in Budapest 4th 5th July 2019 organised by KES International in partnership with Cardiff Metropolitan University Wales UK SEB 19 invited contributions on a range of topics related to sustainable buildings and explored innovative themes regarding sustainable energy systems The aim of the conference was to bring together researchers and government and industry professionals to discuss the future of energy in buildings neighbourhoods and cities from a theoretical practical implementation and simulation perspective The conference formed an exciting chance to present interact and learn about the latest research and practical developments on the subject The conference attracted submissions from around the world Submissions for the Full Paper Track were subjected to a blind peer review process Only the best of these were selected for

presentation at the conference and publication in these proceedings It is intended that this volume provides a useful and informative snapshot of recent research developments in the important and vibrant area of Sustainability in Energy and Buildings

Design and Construction Rick Best, Gerard de Valence, 2007-06-01 The design and construction of buildings is a lengthy and expensive process and those who commission buildings are continually looking for ways to improve the efficiency of the process In this book the second in the Building in Value series a broad range of topics related to the processes of design and construction are explored by an international group of experts The overall aim of the book is to look at ways that clients can improve the value for money outcomes of their decisions to construct buildings The book is aimed at students studying in many areas related to the construction industry including architecture construction management civil engineering and quantity surveying and should also be of interest to many in the industry including project managers property developers building contractors and cost engineers

Life Cycle Assessment Ralph E Horne, Tim Grant, Karli Verghese, 2009-03-20 Life Cycle Assessment LCA has developed in Australia over the last 20 years into a technique for systematically identifying the resource flows and environmental impacts associated with the provision of products and services Interest in LCA has accelerated alongside growing demand to assess and reduce greenhouse gas emissions across different manufacturing and service sectors Life Cycle Assessment focuses on the reflective practice of LCA and provides critical insight into the technique and how it can be used as a problem solving tool It describes the distinctive strengths and limitations of LCA with an emphasis on practice in Australia as well as the application of LCA in waste management the built environment water and agriculture Supported by examples and case studies each chapter investigates contemporary challenges for environmental assessment and performance improvement in these key sectors LCA methodologies are compared to the emerging climate change mitigation policy and practice techniques and the uptake of quick LCA and management tools are considered in the light of current and changing environmental agendas The authors also debate the future prospects for LCA technique and applications

Acacia Wood Bio-composites Md Rezaur Rahman, 2019-09-23 This book investigates the enhancement of properties of acacia wood and its surface treatment for high strength bio composites It describes the tensile flexural and impact strength surface behaviour morphological analysis infrared spectral functional analysis thermal properties analysis and dielectrical properties of acacia wood bio composites It reports efforts on the optimization of fabrication techniques to prepare acacia wood reinforced bio composites based on PLA PHA Etc The book also reports on environmental impact analysis of acacia wood bio composites A special chapter is dedicated to the nano enhancement of acacia wood bio composites and their possible use in applications in terms of sustainability and economics

Eco-efficient Construction and Building Materials Fernando Pacheco-Torgal, Luisa F. Cabeza, Joao Labrincha, Aldo Giuntini de Magalhaes, 2014-02-14 Eco efficient Construction and Building Materials reviews ways of assessing the environmental impact of construction and building materials Part one discusses the application of life cycle assessment LCA

methodology to building materials as well as eco labeling Part two includes case studies showing the application of LCA methodology to different types of building material from cement and concrete to wood and adhesives used in building Part three includes case studies applying LCA methodology to particular structures and components Reviews ways of assessing the environmental impact of construction and building materials Provides a thorough overview including strengths and shortcomings of the life cycle assessment LCA and eco labeling of eco efficient construction and building materials Includes case studies showing the application of LCA methodology to different types of building material from cement and concrete to wood and adhesives used in building

Life-Cycle Greenhouse Gas Emissions of Commercial Buildings Cuong N. N. Tran, Vivian W. Y. Tam, Khoa N. Le, 2021-07-12 This book develops a model to evaluate and assess life cycle greenhouse gas emissions based on typical Australian commercial building design options It also draws comparisons between some of the many green building rating tools that have been developed worldwide to support sustainable development These include Leadership in Energy and Environmental Design LEED by the United States Green Building Council USGBC Building Research Establishment Environmental Assessment Method BREEAM by the Building Research Establishment Comprehensive Assessment System for Building Environmental Efficiency CASBEE by the Japanese Sustainable Building Consortium and Green Star Environmental Rating System by the Green Building Council of Australia Life cycle assessment LCA life cycle energy consumption and life cycle greenhouse gas emissions form the three pillars of life cycle studies which have been used to evaluate environmental impacts of building construction Assessment of the life cycle greenhouse gas emissions of buildings is one of the significant obstacles in evaluating green building performance This book explains the methodology for achieving points for the categories associated with reduction of greenhouse gas emissions in the Australian Green Star rating system The model for the assessment uses GaBi 8 7 platform along with Visual Basic in Microsoft Excel and shows the relationship between the building s energy consumption and greenhouse gas emissions released during the lifetime of the building The data gathered in the book also illustrates that the green building design and specifications are becoming more popular and are being increasingly utilized in Australia This book is important reading for anyone interested in sustainable construction green design and buildings and LCA tools

ECPPM 2022 - eWork and eBusiness in Architecture, Engineering and Construction 2022 Eilif Hjelseth, Sujesh F. Sujan, Raimar J Scherer, 2023-03-29 ECPPM 2022 eWork and eBusiness in Architecture Engineering and Construction contains the papers presented at the 14th European Conference on Product Process Modelling ECPPM 2022 Trondheim Norway 14 16 September 2022 and builds on a long standing history of excellence in product and process modelling in the construction industry which is currently known as Building Information Modelling BIM The following topics and applications are given special attention Sustainable and Circular Driven Digitalisation Data Driven Design and or Decision Support Assessment and Documentation of Sustainability Information lifecycle Data Management Collection Processing and Presentation of Environmental Product Documentation

EPD and Product Data Templates PDT Digital Enabled Collaboration Integrated and Multi Disciplinary Processes Virtual Design and Construction VDC Production Metrics Integrated Concurrent Engineering Lean Construction and Information Integration Automation of Processes Automation of Design and Engineering Processes Parametric Modelling and Robotic Process Automation Expert Systems BIM based model and compliance checking Enabling Technologies Machine Learning Big Data Artificial and Augmented Intelligence Digital Twins Semantic Technology Sensors and IoT Production with Autonomous Machinery Robotics and Combinations of Existing and New Technical Solutions Frameworks for Implementation International Information Management Series ISO 19650 and Other International Standards ISO European CEN and National Standards Digital Platforms and Ecosystems Human Factors in Digital Application Digital Innovation Economy of Digitalisation Client Organisational Team and or Individual Perspectives Over the past 25 years the biennial ECPM conference proceedings series has provided researchers and practitioners with a unique platform to present and discuss the latest developments regarding emerging BIM technologies and complementary issues for their adoption in the AEC FM industry **A Handbook of Sustainable Building Design and Engineering** Dejan Mumovic,Mat

Santamouris,2013-06-17 The combined challenges of health comfort climate change and energy security cross the boundaries of traditional building disciplines This authoritative collection focusing mostly on energy and ventilation provides the current and next generation of building engineering professionals with what they need to work closely with many disciplines to meet these challenges A Handbook of Sustainable Building Engineering covers how to design engineer and monitor a building in a manner that minimises the emissions of greenhouse gases how to adapt the environment fabric and services of existing and new buildings to climate change how to improve the environment in and around buildings to provide better health comfort security and productivity and provides crucial expertise on monitoring the performance of buildings once they are occupied The authors explain the principles behind built environment engineering and offer practical guidance through international case studies **Principles of Basic Construction Economics in the 21st Century** Clinton Ohis

Aigbavboa,Andrew Ebekozien,2024-09-16 Principles of Basic Construction Economics in the 21st Century unravels and takes account of the widening and more sophisticated cost management and control services required by the discerning client in today s construction industry *Environmental Sustainability in Building Design and Construction* Xiaoming

Wang,Sayanthan Ramakrishnan,2022-01-01 This monograph offers analyses of construction activities using various key concepts and assessments of sustainable development and provides students and researchers with methodologies and design aspects for the sustainable development of the built environment Additionally the book demonstrates various national and international policies for assisting architects engineers and policy makers in understanding the relevant decision making approaches to sustainable development in construction The book begins by reviewing the background of sustainability and sustainable development The focus then turns to the effects of climate change on the built environment including impacts of

energy and carbon emissions as well as constraints on water and waste management The remaining chapters discuss the necessary approaches to achieve sustainable waste management energy efficient building design and resilience and adaptation in the built environment In eight chapters the book encourages readers to think independently logically and objectively about the complex issues presented by the applications of sustainable development in construction including resource efficiency environmental impacts human health building economics and social development Change Management Towards Life Cycle AE(C) Practice Anna Dalla Valle,2021-03-15 The book explores how architectural engineering and construction AEC firms have been adapting and changing to effectively address key environmental challenges focusing on Life Cycle Thinking and related methodologies Life Cycle Assessments and Life Cycle Costing Starting from current practice the book outlines the necessary change management to turn into life cycle AE C practice switching from a product technology mindset to a life cycle thinking and holistic approach Although the primary audience of the book are Architectural and Engineering firms the broad range of topics encourages readers from different backgrounds to explore the latest advancements in construction sector Service companies and software developers can find inspiration to develop innovative tools and solutions clients can find ways to demand sustainability as key target for building design and universities can align academic programmes to address new industry challenges **Sustainability through Energy-Efficient**

Buildings Amritanshu Shukla,Atul Sharma,2018-03-20 The book covers chapters ranging from introduction to recent technological challenges case studies of energy efficient buildings with policy and awareness issues fundamentals and present status along with research updates and future aspects on topics focusing on energy efficient construction materials Provides comprehensive information on energy efficient buildings including policy and energy audit aspects with case studies Examines application of PCMs in passive heating and cooling in buildings role of active TES and energy saving potential

Life-Cycle of Engineering Systems: Emphasis on Sustainable Civil Infrastructure Jaap Bakker,Dan M. Frangopol,Klaas Breugel,2016-11-18 This volume contains the papers presented at IALCCE2016 the fifth International Symposium on Life Cycle Civil Engineering IALCCE2016 to be held in Delft The Netherlands October 16 19 2016 It consists of a book of extended abstracts and a DVD with full papers including the Fazlur R Khan lecture keynote lectures and technical papers from all over the world All major aspects of life cycle engineering are addressed with special focus on structural damage processes life cycle design inspection monitoring assessment maintenance and rehabilitation life cycle cost of structures and infrastructures life cycle performance of special structures and life cycle oriented computational tools The aim of the editors is to provide a valuable source for anyone interested in life cycle of civil infrastructure systems including students researchers and practitioners from all areas of engineering and industry Proceedings of the 26th International Symposium on Advancement of Construction Management and Real Estate Hongling Guo,Dongping Fang,Weisheng Lu,Yi Peng,2022-09-01 This book of CRIOCM 2021 26th International Conference on Advancement of

Construction Management and Real Estate presents the latest developments in real estate and construction management around the globe. The conference was organized by the Chinese Research Institute of Construction Management CRIOCM working in close collaboration with Tsinghua University. Written by international academics and professionals, the book discusses the latest achievements, research findings, and advances in frontier disciplines in the field of construction management and real estate. Covering a wide range of topics including building information modeling, big data, geographic information systems, housing policies, management of infrastructure projects, intelligent construction, and smart city, real estate finance and economics, and urban planning and sustainability, the discussions provide valuable insights into the implementation of advanced construction project management and real estate market in China and abroad. The book offers an outstanding resource for academics and professionals.

The Sustainable Tall Building Philip Oldfield, 2019-03-27

The Sustainable Tall Building: A Design Primer is an accessible and highly illustrated guide which primes those involved in the design and research of tall buildings to dramatically improve their performance. Using a mixture of original research and analysis, best practice design thinking, and a detailed look at exemplar case studies, author Philip Oldfield takes the reader through the architectural ideas, engineering strategies, and cutting edge technologies that are available to the tall building design team. The book takes a global perspective, examining high rise design in different climates, cultures, and contexts. It considers common functions such as high rise housing and offices, to more radical designs such as vertical farming and vertical cemeteries. Innovation is provided by examining not only the environmental performance of tall buildings but also their social sustainability, guiding the reader through strategies to create successful communities at height. The book starts by critically appraising the sustainability of tall building architecture, past and present, before demonstrating innovative ways for future tall buildings to be designed. These include themes such as climatically responsive architecture, siting a tall building in the city, zero carbon towers, skygardens, and community spaces at height, sustainable structural systems, and novel facades. In doing so, the book provides essential reading for architects, engineers, consultants, developers, researchers, and students engaged with sustainable design and high rise architecture.

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