

# Unlock the Secrets of Sustainable Building: Delve into the Proceedings of the 11th International Conference

11<sup>th</sup> International Conference on

# Sustainable Built Environment 2020

THE KANDY CONFERENCE

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SCAN ME

In an era marked by heightened environmental consciousness and the pressing need to mitigate climate change, sustainable building practices

have emerged as a cornerstone of the construction industry. The 11th International Conference on Sustainable Built Environments brought together renowned experts, researchers, and practitioners from across the globe to explore the latest advancements and best practices in this crucial field. The conference proceedings, meticulously documented in this comprehensive volume, offer an invaluable resource for anyone seeking to stay abreast of the cutting-edge developments shaping the future of sustainable construction.

## **Sustainable Building: A Comprehensive Overview**

This meticulously crafted book delves into the multifaceted world of sustainable building, providing a comprehensive overview of its principles, benefits, and challenges. From energy efficiency to water conservation, material selection to waste management, the conference proceedings cover a wide spectrum of topics essential for understanding the complexities of sustainable design and construction. Case studies and practical examples illuminate the real-world applications of these concepts, showcasing innovative solutions that are transforming the built environment.



### **ICSBE 2024: Proceedings of the 11th International Conference on Sustainable Built Environment (Lecture Notes in Civil Engineering Book 174)** by Songmi Han

★★★★☆ 4.8 out of 5

Language : English  
File size : 102351 KB  
Text-to-Speech : Enabled  
Enhanced typesetting : Enabled  
Word Wise : Enabled  
Print length : 1040 pages  
Screen Reader : Supported



## **Energy Efficiency and Green Technologies**

Energy efficiency lies at the heart of sustainable building practices. The conference proceedings explore the latest advancements in building design, materials, and systems that minimize energy consumption and promote renewable energy sources. From passive solar design to smart energy management systems, the book provides valuable insights into strategies for reducing the environmental impact of buildings while enhancing comfort and well-being.

## **Water Conservation and Management**

Water scarcity is a growing concern in many regions around the world. The conference proceedings highlight the importance of water conservation in sustainable building, showcasing innovative techniques for rainwater harvesting, greywater reuse, and efficient plumbing fixtures. Case studies demonstrate the successful implementation of these measures, reducing water usage and mitigating the environmental impact of buildings.

## **Material Selection and Sustainable Construction**

Building materials play a significant role in the sustainability of the built environment. The conference proceedings examine the environmental impacts of different materials, guiding readers towards sustainable choices that minimize embodied energy, emissions, and waste. From recycled materials to bio-based products, the book explores cutting-edge developments in material science and their applications in sustainable construction.

## **Waste Management and Circular Economy**

Construction and demolition activities generate vast amounts of waste, posing a significant environmental challenge. The conference proceedings address the need for waste management strategies that promote a circular economy. Innovative approaches to waste reduction, recycling, and reuse are presented, outlining best practices for minimizing the environmental footprint of the construction industry.

## **Smart Buildings and Digital Transformation**

The advent of digital technologies is transforming the building sector. The conference proceedings explore the integration of smart building systems, Internet of Things (IoT), and artificial intelligence (AI) in sustainable building practices. Case studies demonstrate how these technologies can optimize energy efficiency, improve indoor environmental quality, and enhance user comfort while reducing operating costs.

## **Case Studies and Real-World Applications**

The conference proceedings are enriched by numerous case studies and real-world examples that illustrate the practical implementation of sustainable building principles. From the design and construction of energy-efficient skyscrapers to the retrofitting of existing buildings for improved sustainability, the book provides a wealth of practical knowledge for architects, engineers, contractors, and policymakers alike.

The Proceedings of the 11th International Conference on Sustainable Built Environments is an indispensable resource for anyone committed to advancing the field of sustainable building. With its comprehensive coverage of the latest advancements, best practices, and real-world

applications, this volume empowers readers with the knowledge and tools to create a more sustainable built environment, ensuring a greener and healthier future for generations to come.



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