

1. Record Nr.	UNINA9910337595003321
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Titolo	Integrative Approach to Comprehensive Building Renovations / / by Vesna Žegarac Leskovar, Miroslav Premrov
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-11476-7
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (164 pages) : illustrations (some color)
Collana	Green Energy and Technology, , 1865-3529
Disciplina	720.47
Soggetti	Sustainable architecture Buildings—Design and construction Building Construction Engineering, Architectural Energy consumption Building materials Regional planning City planning Sustainable Architecture/Green Buildings Building Construction and Design Energy Efficiency Structural Materials Landscape/Regional and Urban Planning
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Basic Refurbishment Approaches -- Refurbishment Process Methodology -- Scientific Research related to Building Refurbishment -- Case Study Analyses.
Sommario/riassunto	This book presents a new approach to building renovation, combining aspects of various professional disciplines, integrating green building design, structural stability, and energy efficiency. It draws attention to several often-overlooked qualities of buildings that should be comprehensively integrated into the context of building renovation.

The book presents an overview of the most important renovation approaches according to their scope, intensity, and priorities. Combining basic theoretical knowledge and the authors' scientific research it emphasizes the importance of simultaneous consideration of energy efficiency and structural stability in building renovation processes. It simultaneously analyses the effects of various renovation steps related to the required level of energy efficiency, while it also proposes the options of building extension with timber-glass upgrade modules as the solution to a shortage of usable floor areas occurring in large cities. This book offers building designers and decision makers a tool for predicting energy savings in building renovation processes and provides useful guidelines for architects, city developers and students studying architecture and civil engineering. Additionally, it demonstrates how specific innovations, e.g., building extensions with timber-glass modules, can assist building industry companies in the planning and development of their future production. The main aim of the current book is to expose various approaches to the renovation of existing buildings and to combine practical experience with existing research, in order to disseminate knowledge and raise awareness on the importance of integrative and interdisciplinary solutions.
