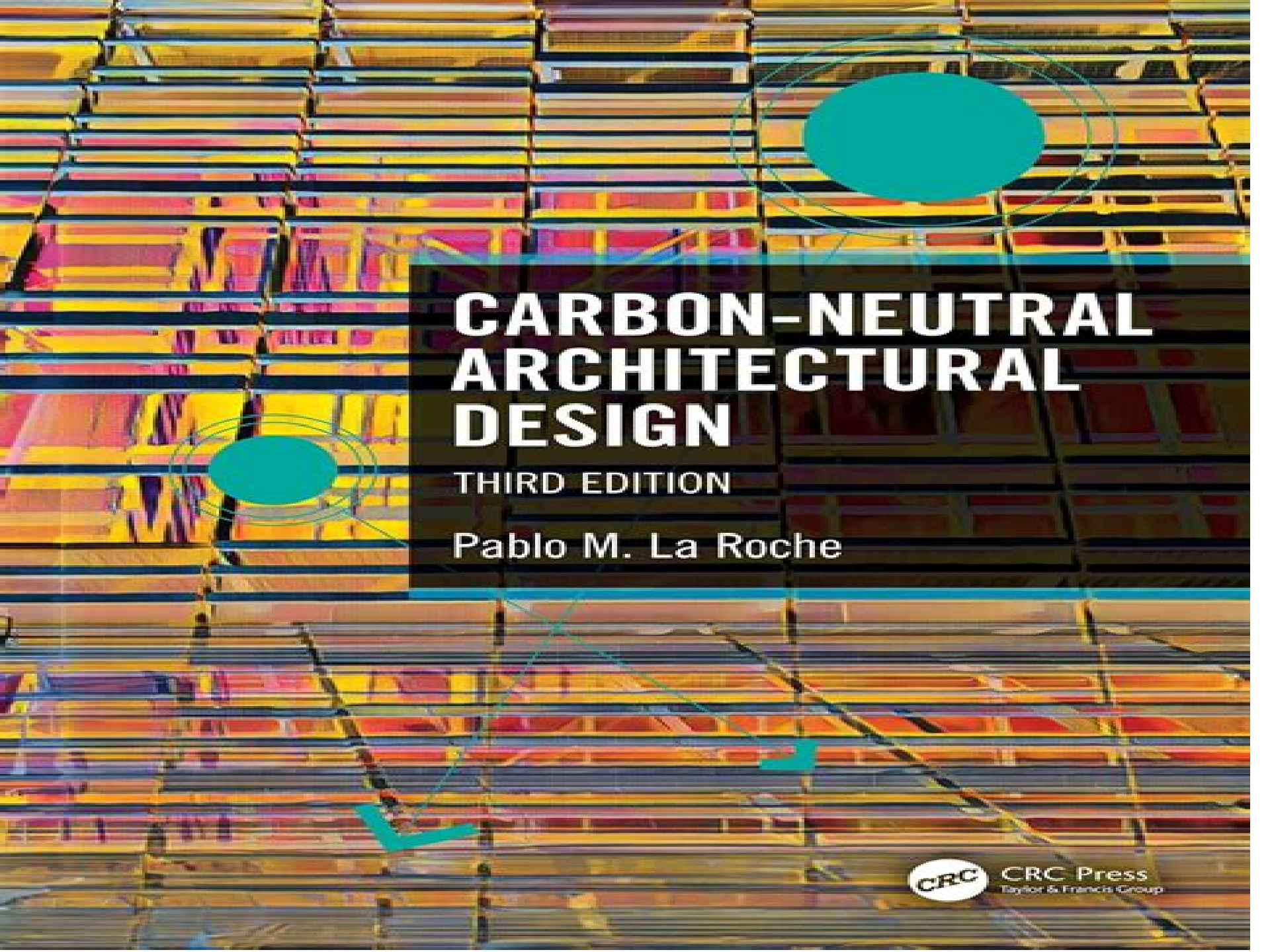


The background of the book cover is an abstract composition of horizontal bands in various colors including yellow, orange, red, and purple. Overlaid on these bands are several geometric elements: two teal circles with concentric lines, a teal square, and a teal L-shaped bracket.

CARBON-NEUTRAL ARCHITECTURAL DESIGN

THIRD EDITION

Pablo M. La Roche



CRC Press
Taylor & Francis Group

Carbon Neutral Architectural Design Author Pablo M La Roche Jan 201

**Matti Kuittinen, Alan
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buildings to reduce energy consumption and reduce emissions Explains the origins of CO2 emissions associated with the operation and fabrication of buildings supplying water disposing of waste from the building and proposes strategies to reduce them Covers carbon calculations thermal comfort indigenous technology climate responsive design passive cooling and heating solar design air flow analysis daylighting building simulation and microclimate design with abundant examples Examines siting location to design buildings that adapt and mitigate their effect on climate change Teaching Carbon Neutral Design in North America Robin Z. Puttock, 2025-03-12 This book brings to light a diverse range of innovative architectural design studio methodologies formulated to educate future graduates to combat the climate crisis through carbon neutral design Award winning professors detail tried and tested studio methodologies outlining their philosophical rationale the role of precedent study design concept and professional partnerships the approach to analytics and software design development required readings assignment and student work examples and anticipated future innovation Chapters are grouped under varying focal points including community empowerment bioclimatic response performance analytics design build and urban scale all adopting a holistic view of sustainable design that incorporates technical challenges as well as those of equity and social justice This heterogeneous compilation of strategies encourages wide accessibility to and acceptance by studio professors as well as administrators and faculty developing architecture curricula This will in turn maximize the impact on curtailing carbon emissions resulting from the construction and operations of our built environment

Carbon Matti Kuittinen, Alan Organschi, Andrew Ruff, 2022-09-07 A comprehensive approach to design that integrates sustainable principles and design strategies for decarbonized construction Representing an international collaboration between academics and architects in the United States and Europe *Carbon A Field Manual for Designers and Builders* offers professionals in the field an approach to sustainable design that embraces building science principles life cycle analysis and design strategies in carbon neutral construction The book also contains background information on carbon in construction materials and in the building design process This book is filled with illustrative diagrams and drawings that help evaluate the potential impact of design decisions for creating carbon emissions Written by and for designers and builders the book includes a compelling pair of case studies that explore carbon reducing strategies suggests steps for assessing a building's carbon footprint and reviews carbon storages and circulation of materials The guidelines detailed in the book can be adopted replicated and deployed to reduce carbon emissions and create more sustainable buildings This important book Offers an effective approach to sustainable design in construction Integrates building science principles life cycle analysis and design strategies in carbon neutral construction Describes a methodology for quantifying the flow of carbon in the built environment Provides an analysis of carbon reducing strategies based on a case study of a building designed by the authors Written for practicing professionals in architecture and construction *Carbon A Field Guide for Designers and Builders* is a must have resource for professionals who are dedicated to creating sustainable projects Going to Zero 2019 Pablo La

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