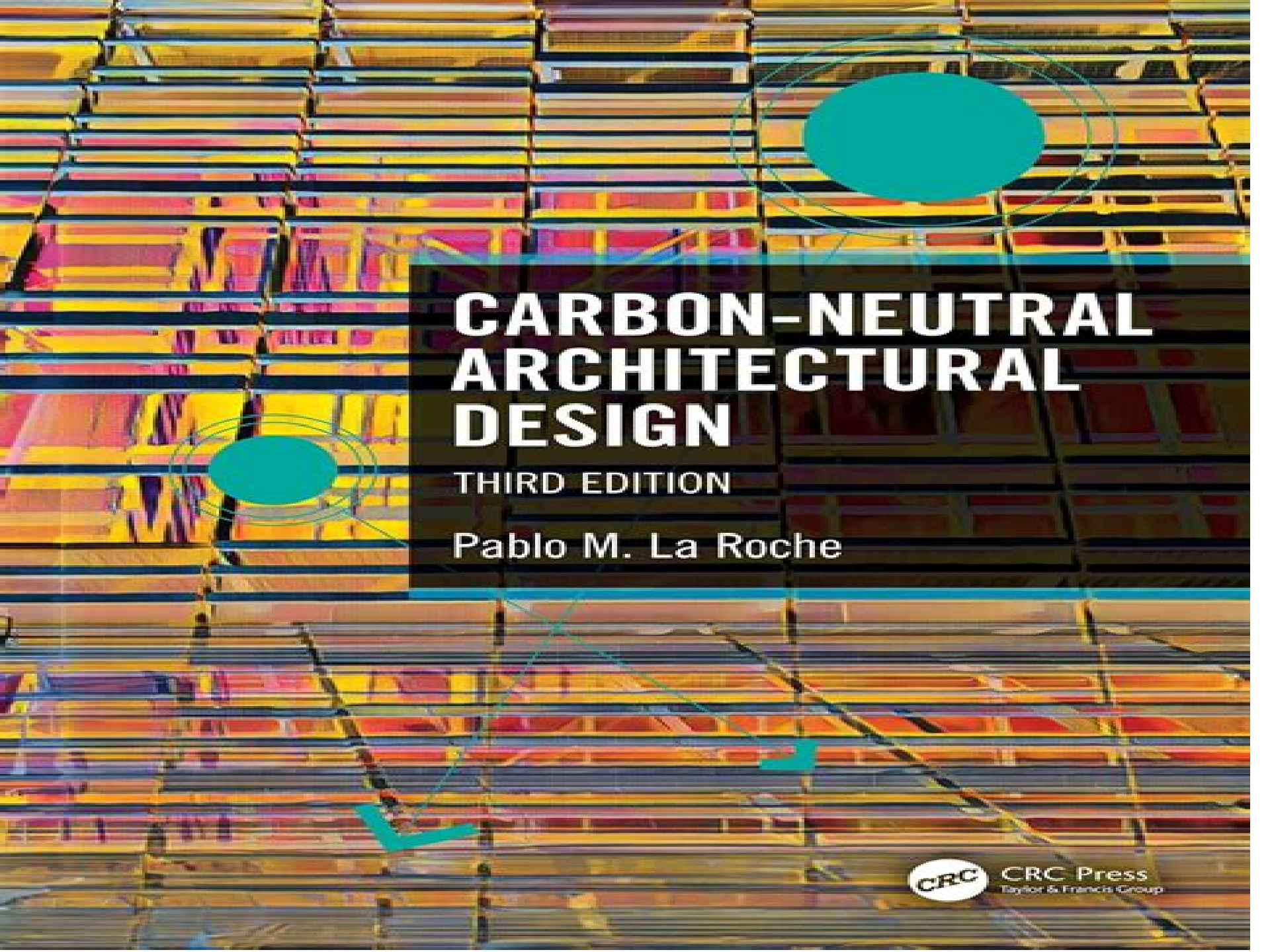


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CARBON-NEUTRAL ARCHITECTURAL DESIGN

THIRD EDITION

Pablo M. La Roche



CRC Press
Taylor & Francis Group

Carbon Neutral Architectural Design Author Pablo M La Roche Jan 201

Pablo La Roche



Carbon Neutral Architectural Design Author Pablo M La Roche Jan 201:

Carbon-Neutral Architectural Design Pablo M. La Roche, 2024-05-31 The energy used to build and operate buildings is a significant source of greenhouse gas emissions While it is possible to reduce emissions through low carbon design many architects are not trained to do this Filling an urgent need for a design reference in this emerging field this book describes how to reduce building related greenhouse gas emissions through appropriate design techniques It presents strategies to achieve CO2 reductions with an emphasis on control of energy flows through the building envelope and passive cooling and heating strategies This new revised edition is updated throughout and includes a new section on embodied carbon and new chapters on daylighting and nature based cooling Features Adds new chapters on daylighting and nature based cooling with numerous updates throughout the rest of the chapters Presents strategies illustrated with examples for new construction and existing 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

Carbon-Neutral Architectural Design Pablo M. La Roche, 2016-04-19 The energy used to operate buildings is one of the most significant sources of greenhouse gas emissions To lessen the human impact on climate it is necessary to reduce these building related emissions New legislation as well as market and financial pressures are driving architects and developers to create low carbon buildings While it is possible to achieve many of these reductions through appropriate climate responsive design many architects are not trained to do this Filling an urgent need for a design reference in this emerging field *Carbon Neutral Architectural Design* describes how to reduce building related greenhouse gas emissions through appropriate design techniques This full color book presents strategies and methods to achieve CO2 reductions with an emphasis on control of energy flows through the building envelope and passive heating and cooling strategies Strategies for Designing Buildings with a Smaller Carbon Footprint Examining climate change and its relationship with buildings the book begins with a look at the sources of emissions and how these are produced as a result of interactions between buildings and the surrounding environment It then introduces a carbon neutral architectural design process CNDP and a roadmap that can be adjusted for different types of projects Discussing climate analysis and solar geometry the book explores how understanding the climate where a building is located helps to identify the design strategies that are best suited to that location whether warm and humid warm and dry temperate or cold It looks at psychrometrics and how to achieve thermal comfort with minimum emissions The book also explains how building fabric can be used to control energy flows by conduction radiation and convection helping to reduce overheating and overcooling and how to incorporate passive cooling and heating systems

through appropriate design The book includes useful references equations and illustrations as well as a comparison of free carbon counting tools that can be used for residential building design Drawing on the author s extensive experience in teaching and practice this is a valuable resource for anyone who wants to reduce the carbon footprint of buildings Find more study resources at the American Institute of Architects Carbon Neutral Design Project web site What s next for green building See what Dr La Roche has to say in this video on the HMC Architects blog

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,2022-07-26 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 Roche,2019-06-15

Student Projects for ARC 3310 Environmental Controls Systems Spring Semester of 2019

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