



Green Building with Concrete: Sustainable Design and Construction

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With superior fire resistance, strength, and a long service life, concrete is the most widely used construction material in the world. A sustainable material, concrete is also easily and affordably reused and rehabilitated. The first book to provide an overview of sustainability and concrete, **Green Building with Concrete: Sustainable Design and Construction** surveys the material's history in the green building movement and presents state-of-the-art methodologies and best practices.

From the manufacturing of cement to the rehabilitation of concrete, this comprehensive book explains how concrete can be used for sustainable design and construction. It offers insight into new technological and social developments guiding the introduction of green buildings and examines the attributes that concrete has to offer the green building movement. The text also highlights research on economic analysis—particularly life cycle costing—to provide a full picture of the economic benefits of concrete. Expert contributors from around the world offer diverse viewpoints on global sustainability.

Topics covered include:

- Principles of sustainable design
- Benefits of concrete's thermal mass
- Mitigation of urban heat island effects
- Surface runoff and the application of pervious concrete for sidewalks and parking areas
- Reduction of construction waste
- Leadership in energy and environmental design (LEED) standards

Emphasizing environmental impact and occupational and consumer health and safety, this book explains how to make the most of concrete in sustainable design. Written for university and concrete industry continuing education courses, it also serves as a reference for building owners and industry professionals who recognize the value of green building.

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