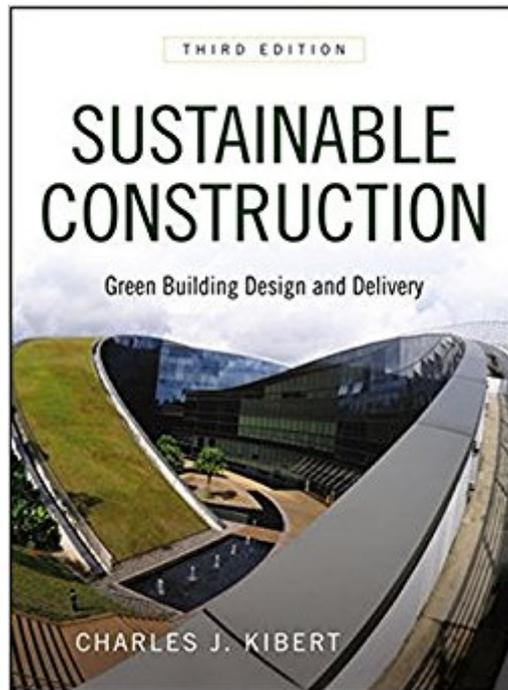


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# Sustainable Construction: Green Building Design And Delivery



## Synopsis

The classic reference for high-performance green building delivery systems No longer just a buzzword, sustainable construction is going mainstream and soon will be the norm. Revised to reflect the latest developments of the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) rating system and other tools, *Sustainable Construction: Green Building Design and Delivery, Third Edition* guides construction and design professionals through the process of developing commercial and institutional high-performance green buildings in today's marketplace. Charles Kibert provides an introduction to green building, covering the theory, history, and state of the industry as well as best practices in building procurement and delivery systems. From green building and Green Globes assessments to building hydrological systems and materials and product selection, this comprehensive text covers all of the factors involved with sustainable construction. In a clear and accessible writing style, Kibert addresses issues so that the reader can think critically and independently as part of the cutting edge in green building. The Third Edition includes up-to-date coverage of: The latest developments leading up to LEED version 4 Carbon neutral design and carbon accounting Green Globes and international building assessment systems The Living Building Challenge Environmental product declarations (EPDs) as the norm for green building products The trends in net-zero energy building design and policies Broad enough to cover the needs of faculty and students and detailed enough to serve as a professional reference, *Sustainable Construction, Third Edition* is a must for the builder/owner and construction manager looking to take advantage of the opportunities in this rapidly evolving field, the designer looking to be LEED certified, or anyone interested in sustainability.

## Book Information

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## Customer Reviews

I need to disagree with the two earlier reviewers in assessing this book. I used it in the context of a low-end graduate course on Sustainable Construction and found it to be both informative and relevant to the topic of making construction sustainable. This book does not provide technical coverage of the systems discussed or construction in general, and should only be utilized by practitioners or students who already have such a background, but goes through many major areas in which sustainability can be in-built into buildings. These areas include: - Site selection, including how to orient buildings in the most climate-efficient manner under varying conditions and other site-relevant topics - Glazing and insulation, including techniques to optimizing glazing performance by controlling insulation to best meet climate and seasonal requirements for a variety of building uses - Alternative climate controls, including a heavy emphasis on natural ventilation, geothermal methods, and operational procedures that optimize indoor climate with minimal energy consumption - Water conservation, including both bathroom and general areas, as well as rainwater collection, irrigation, and other topics - Energy conservation, including on-site generation and optimization of lighting and HVAC systems, which currently comprise the majority of energy consumption by buildings - Material conservation, including the use of emerging material technologies, design-for-deconstruction, and similar methods I found the greatest fault of this book to be the lack of coverage on implementation, which the earlier reviewers harped on.

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