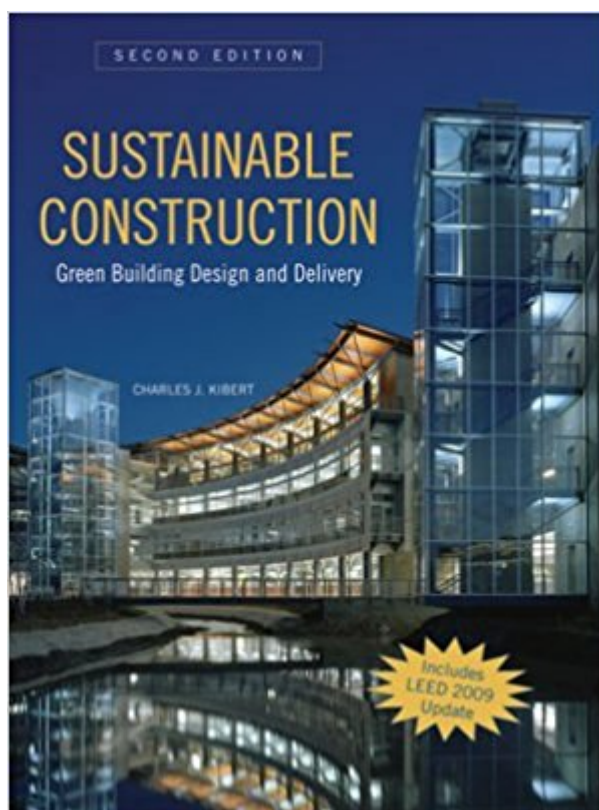


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# Sustainable Construction: Green Building Design And Delivery, Second Edition



## Synopsis

Reflecting the latest developments in the green building movement, and updated to include coverage of LEED 2009, *Sustainable Construction: Green Building Design and Delivery, Second Edition* guides construction and design professionals through the process of developing commercial and institutional high-performance green buildings in today's marketplace. In this revised edition, Charles Kibert delivers a detailed, and passionate, overview of the entire process of green building, covering the theory, history, state of the industry, and best practices in green building. Kibert uses not only the dominant LEED assessment system, but includes such newer ones as Green Globes and several noteworthy building assessment systems from other countries. Sections introduce the background of the green building movement and walk you through such aspects as the background of high-performance green building design, green-building assessment, the green building process, and ecological design. Broad enough to cover the needs of faculty and students in architecture, engineering, landscape architecture, interior design, and construction management, yet focused enough to serve as a reference for building owners and buyers of construction services, *Sustainable Construction* is a comprehensive look at an emerging process that is environmentally sound while making good economic sense. Content from this book is available as two online continuing professional education courses at

[http://www.wiley.com/WileyCDA/Section/id-320255.html#life\\_cycle\\_assessment](http://www.wiley.com/WileyCDA/Section/id-320255.html#life_cycle_assessment) and

[http://www.wiley.com/WileyCDA/Section/id-320255.html#green\\_building](http://www.wiley.com/WileyCDA/Section/id-320255.html#green_building). WileyCPE courses

are available on demand, 24 hours a day, and are approved by the American Institute of Architects.

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## Customer Reviews

Introduction to high-performance green building delivery systems The green building movement has come a long way in a short time. Responding to this exponential growth, with its attendant technological as well as aesthetic developments, *Sustainable Construction: Green Building Design and Delivery, Second Edition* guides construction and design professionals through the process of developing commercial and institutional high-performance green buildings in today's marketplace. In this revised edition, Charles Kibert delivers a detailed and passionate overview of the entire process of green building, covering the theory, history, and state of the industry and of best practices in green building. Kibert not only uses the dominant LEED assessment system, but also includes such newer ones as Green Globes and several noteworthy building assessment systems from other countries. Sections introduce the background of the green building movement and walk the reader through such aspects as: The background of high-performance green building design Green building assessment The green building process Ecological design Broad enough to cover the needs of faculty and students in architecture, engineering, landscape architecture, interior design, and construction management, yet focused enough to serve as a reference for building owners and buyers of construction services, *Sustainable Construction, Second Edition* is a comprehensive look at an emerging process that is environmentally sound while also making good economic sense. The following companion Web site complements the book: [wiley.com/go/sustainableconstruction](http://wiley.com/go/sustainableconstruction)

Charles J. Kibert, PhD, PE, is Director of the Powell Center for Construction and Environment, and a professor in the M. E. Rinker Sr. School of Building Construction at the University of Florida. He is a board member of the Green Building Initiative, the Florida Green Building Coalition, and the Gulf Coast Chapter of the U.S. Green Building Council. He is the cofounder and chairman of the Cross Creek Initiative, Inc., a nonprofit organization established to accelerate the implementation of sustainability principles in building design, construction, and operation. He teaches and supervises master's and doctoral students who are majoring in the sustainable construction program that he developed at the University of Florida.

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. The majority of techniques covered require significant computer-based modelling techniques in order to be applied correctly. While the detail-level operation of these tools is clearly beyond the scope of the text, it would have been helpful if some software titles and general workflows were discussed. Despite this shortcoming, the material provided more than adequate food for thought to make the book and course very worthwhile. The book also speaks very highly of LEED certification, which I agree is an important step, but not sufficient alone, in spreading awareness and implementation of green building techniques. It does not, however, provide adequate background for taking the LEED Green Associate or Accredited Professional examinations, for which a purpose-written preparation book would be in order.

This book is wicked. I really enjoyed the perspective it brings to the built environment. It's not too heavy handed on the environment angle but it brings up interesting thought provoking points. The level of depth is more intermediate level than beginner or advanced but I found it to be a great place to start learning and thinking about the built environment.

Book arrived as promised (well within shipping time frame) and in perfect condition as described. Oh, and it is a good textbook if someone wants to study the basics of many areas of sustainable construction, easily supported by additional online research to update with most current news and materials.

Excellent information for experienced or newcomers to the construction industry. Ordered the book for class, but will use it as a resource going forward. Kibert's analysis and recommendations are based on thorough research of the subject. Glad to be reading and learning the valuable information in this textbook.

Arrived as expected

Good book, very easy to read for a textbook. Easily explained topics and enough depth to topics for basic understanding.

Used this text for a graduate course. It's not really geared towards engineers, so there's that. This text mainly delves into the motivation of sustainability, which makes for a good introductory course but the strengths

Good basic book - covers a lot of information in general terms & may provide you with enough info to direct further research. I got it used at a very good price, so It's a great addition to my library as a general catchall filler - If you want to crunch the numbers for solar heat loads or get the answer for what your new homes wall construction should be - this is not it.

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