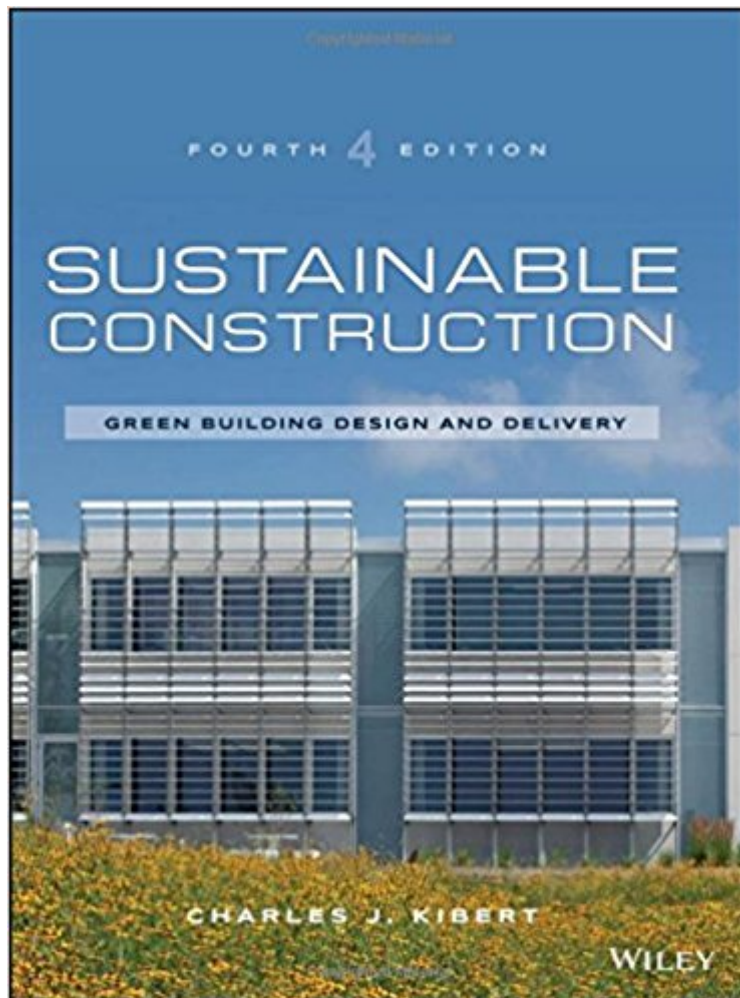




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# Sustainable Construction: Green Building Design And Delivery



## Synopsis

The leading green building reference, updated with the latest advances in the field Sustainable Construction is the leading reference for the design, construction, and operation of high performance green buildings. With broad coverage including architecture, engineering, and construction, this book nevertheless delivers detailed information on all aspects of the green building process, from materials selection to building systems and more. This new fourth edition has been updated to reflect the latest codes and standards, including LEED v4, and includes new coverage of carbon accounting. The discussion has been updated to align with the current thinking on economics, climate change, net zero buildings, and more, with contributions by leaders in the field that illustrate the most recent shifts in thinking and practice. Ancillary materials including an instructor's manual and PowerPoint presentations for each chapter help bring this clear and up-to-date information into the classroom, making this book a valuable reference for working construction professionals. Also, Interactive graphics found throughout the course help activate the content and highlight key concepts for students. Sustainable construction has gone mainstream, and will one day be the industry norm. This book provides a comprehensive reference to all aspects of a project to show you how green building concepts and principles apply throughout the design and construction process. Get up to date on the latest green building codes and standards Learn about the newest technology in green building materials Adopt the best practices in procurement and delivery systems Apply sustainability concepts to all aspects of construction and design Green buildings operate at a very high level of efficiency, which is made possible only by careful consideration every step of the way. Appropriate land use, landscaping, construction materials, siting, water use, and more all play a role in a structure's ultimate carbon footprint. Sustainable Construction provides clear guidance for all aspects of green building, including the most recent advances and the latest technology.

## Book Information

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## Customer Reviews

The authoritative reference for cutting-edge green building and design Sustainable Construction: Green Building Design and Delivery, Fourth Edition is the must-have reference for this increasingly in-demand field. Author Charles Kibert covers broad ground without sacrificing detail, providing a comprehensive guide to the design, construction, and operation of high performance "green" buildings. Short essays by industry leaders provide insight into real-world practices, and wide-ranging topics answer to the needs of students and faculty of architecture, engineering, and construction. This new fourth edition includes: The latest thinking and practice in green building and sustainability issues New developments in LEED v4 and other standards A new chapter on carbon accounting Information on new sustainable materials technology Insights into the design of the latest high-performance green skyscrapers Sustainability issues are continually evolving toward alignment of environmental and economic needs. Sustainable Construction: Green Building Design and Delivery, Fourth Edition provides an authoritative reference with the most up-to-date technology, processes, and standards.

Charles Kibert Ph.D., P.E. is the Director of the Powell Center for Construction and Environment at the University of Florida and a professor in the M.E. Rinker Sr. School of Building Construction, where he organized and teaches the Sustainable Construction graduate track as well as continuing education. He is co-founder and president of the Cross Creek Initiative, a nonprofit industry/university joint venture bringing sustainability principles into the construction industry. Formerly co-chair of the Curriculum and Accreditation Committee of the U. S. Green Building Council, he is currently a chair of the iiSBE Net Zero Built Environment Working Group and a board member of the Green Building Initiative.

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 insolation, including techniques to optimizing glazing performance by controlling insolation 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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