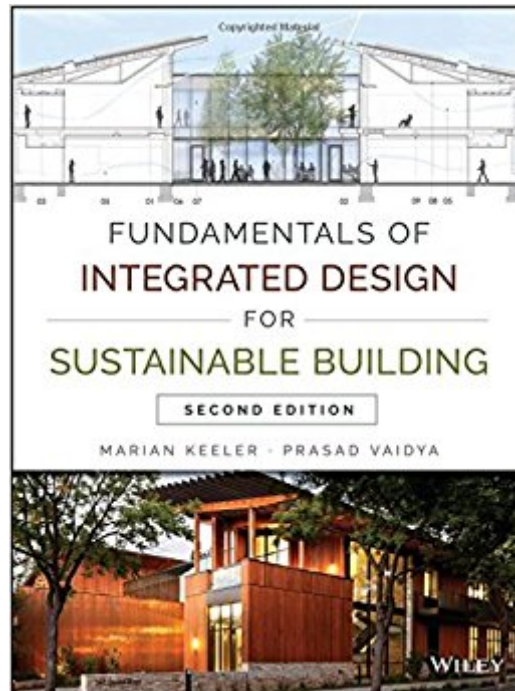




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Fundamentals Of Integrated Design For Sustainable Building



Synopsis

The Fully Updated, Indispensable Study of Sustainable Design Principles Fundamentals of Integrated Design for Sustainable Building is the first textbook to merge principles, theory, and practice into an integrated workflow. This book introduces the technologies and processes of sustainable design and shows how to incorporate sustainable concepts at every design stage. This comprehensive primer takes an active learning approach that keeps students engaged. This book dispenses essential information from practicing industry specialists to provide a comprehensive introduction to the future of design. This new second edition includes:

- Expansive knowledge—from history and philosophy to technology and practice
- Fully updated international codes, like the CAL code, and current legislations
- Up-to-date global practices, such as the tools used for Life-Cycle Assessment
- Thorough coverage of critical issues such as climate change, resiliency, health, and net zero energy building
- Extensive design problems, research exercise, study questions, team projects, and discussion questions that get students truly involved with the material

Sustainable design is a responsible, forward-thinking method for building the best structure possible in the most efficient way. Conventional resources are depleting and building professionals are thinking farther ahead. This means that sustainable design will eventually be the new standard and everyone in the field must be familiar with the concepts to stay relevant. Fundamentals of Integrated Design for Sustainable Building is the ideal primer, with complete coverage of the most up to date information.

Book Information

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Customer Reviews

THE ESSENTIAL PRIMER FOR SUSTAINABLE DESIGN FULLY UPDATED AND REVISED

Sustainable building has evolved from niche to mainstream, and has become the new standard as we look toward a post-carbon world. This second edition of *Fundamentals of Integrated Design for Sustainable Building* bridges theory and practice with an active learning approach. It is a comprehensive primer for those who will design and manage human habitat and invest in our future. From green building materials and certifications, to energy efficiency and sufficiency, indoor and environmental air quality, water management strategies, and rating systems, this book is an essential source of up-to-date information and presents complex technical issues in a way that builds intuitive understanding. Independent and classroom activities reinforce important concepts, and contributions by practitioners of green development provide deep insight into philosophy, technology, and practices. This new second edition includes: New chapters on climate and the built environment and net zero buildings New coverage of building resilience, health, and energy issues International accords and current practices The latest information on green building codes and life-cycle assessment and energy modeling tools Sustainability begins long before the designer begins the concept phase and continues well beyond project delivery. It encompasses every stage of the design and construction process, and continues throughout the operation, renovation, and eventual disassembly or demolition of the finished structure. *Fundamentals of Integrated Design for Sustainable Building* is the essential introduction to this complex, evolving field.

MARIAN KEELER, ASSOCIATE AIA, LEED AP, is a San Francisco-based green building consultant, formerly with Simon & Associates, and a specialist on healthful building materials.

PRASAD VAIDYA, LEED AP, is a Professor and Area Chair for Building Energy Performance at CEPT University in India, and Director at zenerG, a San Francisco-based consultancy that specializes in projects, programs, and policies toward sustainable net-zero-energy solutions.

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