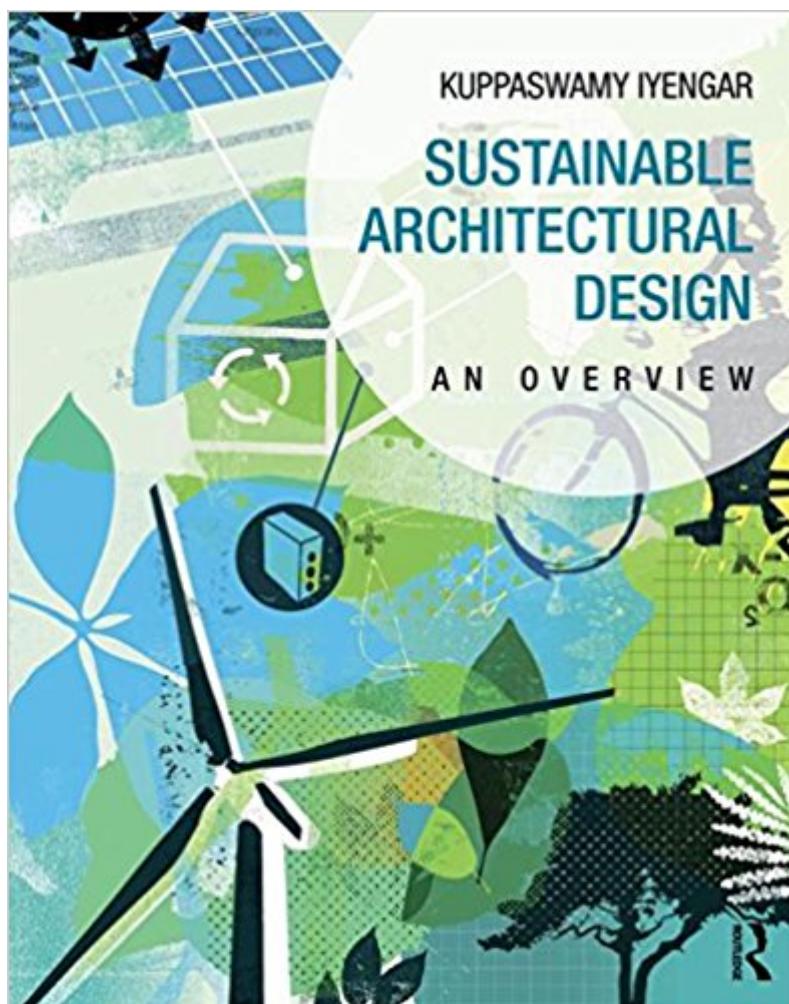


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# Sustainable Architectural Design: An Overview



## Synopsis

This book is a guide to a sustainable design process that moves from theory, to site and energy use, to building systems, and finally to evaluation and case studies, so you can integrate design and technology for effective sustainable building. Kuppaswamy Iyengar shows you how to get it right the first time, use free energy systems, and utilise technologies that minimize fossil fuel use. Each chapter has a sustainable design overview, technical details and strategies marked by clear sections, a summary, and further resources. Heavily illustrated with charts, tables, drawings, photographs, and case studies, the book shows technologies and concepts integrated into cohesive project types, from small and large office spaces to single and multiuse residences, hospitals, schools, restaurants, and warehouses to demonstrate implementing your designs to meet clients' needs now and for the future. Includes an overview of alternate assessment and evaluation systems such as BREEAM, CASBEE, GBTool, Green Globes alongside LEED, ECOTECT, energy 10, HEED and eQuest simulation programs. The guide reveals the importance of the building envelope—walls, superstructure, insulation, windows, floors, roofs, and building materials—in the environmental impact of a building, and has a section on site systems examining site selection, landscape design, thermal impact, and building placement.

## Book Information

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## Customer Reviews

'Kuppaswamy Iyengar's book is a tour de force. Finally, we now have a comprehensive, applications-oriented textbook on sustainable design that should be required reading for all

architecture students. In a single volume, Iyengar deftly blends the technical, practical, and poetic; crystallizes relevant knowledge and research; and provides a strong theoretical underpinning to inform the design process. Sustainable Architectural Design will be indispensable for a new generation of architects to create excellent architecture worldwide, and to help our planet triumph over global warming.' - Andrew Pressman, FAIA, Architect and Lecturer, University of Maryland, USA 'Professor Iyengar skillfully blends the theoretical vision of designing sustainable architecture with the practical realities of actually achieving it. The book is built around updating the design process to include the full array of available strategies, from ancient principles of harvesting natural site energy sources to the latest in green materials, efficiency technologies, and alternative assessment systems. Written for the classroom, this book will be a much-used resource for the practicing architect as well.' - Edward Mazria, Founder and CEO, Architecture 2030, USA 'This book is the most up-to-date and complete volume on sustainable design available. In this lavishly designed book, with over 200 photos, graphs, and illustrations, Iyengar takes the reader from first principles, through both passive and active design schemes, to evaluation and planning of site and building envelope design. Clearly and succinctly written and accompanied by an extensive bibliography, this book is highly recommended.' - Craig B. Smith, PhD. President, DMJM H&N (Ret.), USA 'Timely, important, and well written, this book is a pleasure to read. It is a valuable resource for anyone in the field of architectural design or the energy industry and will be a great teaching tool for new students entering these professions. Best of all, anyone even remotely interested in sustainability will find this a very readable and informative book.' - Kelly E. Parmenter, Ph.D., CEM, Applied Energy Group, Inc., USA 'Iyengar has skillfully and elegantly synthesized the essential information needed to design sustainable buildings, presenting a comprehensive overview in a logical and succinct, yet thorough, format that both students and instructors will highly value and appreciate. The organization of the book is perfect for a semester course, but will also be a highly useful stepping off point for further exploration with its wealth of case studies, references and resources. This text is a particularly useful and valuable addition to the literature on the design of sustainable buildings.' - Stephen D. Dent, AIA, Professor, University of New Mexico and Partner, Dent & Nordhaus Architects, USA 'This book is an effective overview and would make an excellent textbook for managers, students and architects interested in architectural sustainable design. There is a focus on energy in terms of design for buildings, and it also contains site selection analysis in detail. The author has done an admirable job showing theory in terms of practice - something others have not succeeded as well at.' - Jeff Thurston, 3D Visualization World Magazine

Kuppaswamy Iyengar is an Associate Professor, Associate Director, and Regents Lecturer in the architecture program at the University of New Mexico. Professor Iyengar is a highly skilled teacher and technical consultant, combining his degrees in civil and structural engineering and architecture with over fifty years' practical experience. In addition to developing academic courses of study, he has designed and presented over 50 seminars in professional settings, bringing his expertise to students in academic, governmental, and commercial locations in India, Barbados, the USA, England, Canada, Australia, the Philippines, and Thailand.

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