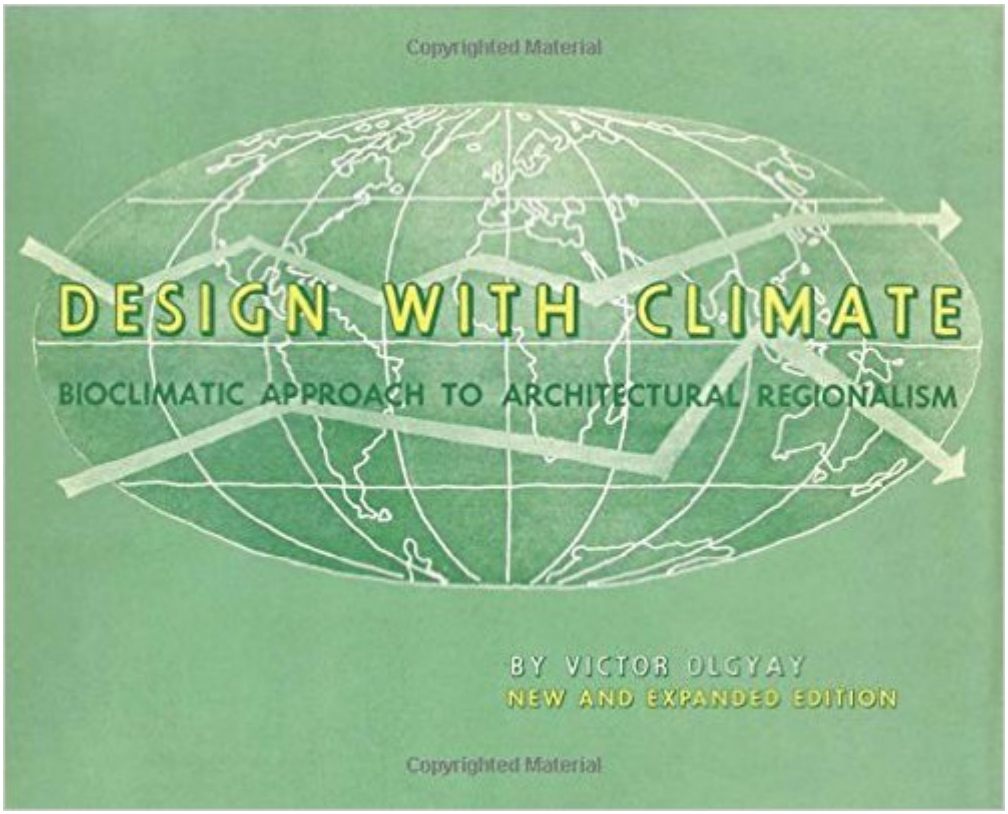
Design With Climate: Bioclimatic Approach To Architectural Regionalism



Synopsis

Architects today incorporate principles of sustainable design as a matter of necessity. But the challenge of unifying climate control and building functionality, of securing a managed environment within a natural setting--and combating the harsh forces of wind, water, and sun--presented a new set of obstacles to architects and engineers in the mid-twentieth century. First published in 1963, Design with Climate was one of the most pioneering books in the field and remains an important reference for practitioners, teachers, and students, over fifty years later. In this book, Victor Olgyay explores the impact of climate on shelter design, identifying four distinct climatic regions and explaining the effect of each on orientation, air movement, site, and materials. He derives principles from biology, engineering, meteorology, and physics, and demonstrates how an analytical approach to climate management can merge into a harmonious and aesthetically sound design concept. This updated edition contains four new essays that provide unique insights on issues of climate design, showing how Olgyay's concepts work in contemporary practice. Ken Yeang, John Reynolds, Victor W. Olgyay, and Donlyn Lyndon explore bioclimatic design, eco design, and rational regionalism, while paying homage to Olgyay's impressive groundwork and contributions to the field of architecture.

Book Information

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Customer Reviews

I've wanted to get a hold of this book for a long time, as I had seen some of the graphs/charts from it through my design career. I had even spotted a few copies sitting on the shelves of some of the

older, progressive architects I work with. But getting a hold of a copy... that would be tough.Fortunately, this update and reprinting is now available to the public and I jumped right on purchasing it. This is a fantastic design guide that is just as relevant today as it was in the 1960s. In fact, one could say it's even more relevant now as we may have finally become wise to the need for bioclimatic buildings and thoughtful design. If I was teaching a course (which I hope to soon) on bioclimatic design, this would be the book I assign and work from. It elegantly and clearly bridges the disciplines of architecture, engineering and biology. It goes deep enough into each of those disciplines to provide real information and data - but it also assumes the reader may not be an expert in each of those subject matters, so it also provides overviews of the principles involved in each.Frankly, this is a book that I think every student intent on designing buildings should be forced to study at some point in their academic career.

Computers, simulation software and standards have made the design process much easier, faster, and saferâ |but itâ ™s not always better. Design with Climate is a refreshing reminder of what it means to not only know about a local climate, but to feel it.Itâ ™s a bit like the difference between describing a radiant cooling system by its water temperature and airflow rate or saying that it is like the â œcool breeze under the shade of a treeâ •.This timeless new edition provides professors, students and practitioners with a solid foundation in understanding climate forces and the possible responses and solutions to our current climate challenges.

Decades ago, Victor Olgyay taught the principles of designing with nature and climate in a deliberate and measured way. While he anticipated the future of ecological design, he might be dismayed to know how long we are all taking to adopt these elegant energy saving strategies on a wide scale. With the convergence of todayâ ™s affordable clean energy technologies and a rebirth of Olgyayâ ™s timeless design approach, the time is ripe for change. Iâ ™ll be recommending this new edition of Design with Climate to all my building and construction students at Stanford and all the architectural and design teams I work with on net zero and low-energy buildings.

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