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High-Performance Building



Synopsis

What really makes a high-performance, energy-efficient building? "Sustainable design is about developing buildings and urban spaces that are tuned to their context. . . . Any building that carries claims to be recognized as 'great architecture' should also qualify as a high-performance building."

-From High-Performance Building

How do we judge the success of a sustainable building? We shouldn't just reward good intentions based on the building design, argues Vidar Lerum in High-Performance Building; we must look at the evidence of the actual performance of architectural objects "as built." High-Performance Building gives architects a practical guide to excellent, sustainable design, showing how to analyze and evaluate the buildings "as built." Taking a hands-on view of sustainability, the author provides designers with specific benchmarks for high performance and energy efficiency. Utilizing the latest methods for analysis of climate responsive design, he asks:

- * Where does a building that claims to be "green" or "sustainable" check in on a scale relative to benchmark buildings of the same type?
- * How does the building contribute to a sustainable development in its demand for energy and natural materials?
- * Does the building provide a high level of thermal comfort to its users?

To illustrate, Lerum takes the reader on an on-site tour of seven buildings around the world that exemplify these standards. Ranging from the west coast of Greenland to the Sonoran Desert, the buildings are examined as physical, built objects. For additional perspectives, the author interviews the architects and speaks with engineers, owners, and users. At the sites, something unexpected often shows up. The author's work reveals unknown or hidden features, characteristics, or details. By understanding what works and what does not in notable buildings around the world, High-Performance Building enables architects to discover the challenges and opportunities in their own designs, whether simple residences or large commercial structures.

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Customer Reviews

"High-Performance Building, by Vidar Lerum, eschews larger philosophical issues in favor of establishing step-by-step directions for analyzing the performance of existing buildings. Lerum considers performance as "annual specific energy use" situating that as a base from which architectural form emerges to serve a sustainable end. He then explains his process-including reviewing design documents, talking to the architect and owner, and modeling the building in energy software-for gauging the performance of an existing building, presumably because you, too, would want to analyze an existing building." (Architectural Record, November 2009)

What really makes a high-performance, energy-efficient building? "Sustainable design is about developing buildings and urban spaces that are tuned to their context. . . . Any building that carries claims to be recognized as 'great architecture' should also qualify as a high-performance building."
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does not in notable buildings around the world, High-Performance Building enables architects to discover the challenges and opportunities in their own designs, whether simple residences or large commercial structures.

This is a great book -- it actually talks about performance using numbers, rather than rhapsodizing about high sounding claims. It really cuts through the crap and lets you see how real buildings work. The author is also quite balanced and fair. The only small quibble is that some of the graphics are of mediocre quality otherwise I would have given it five stars. If you are interested at looking at how building actually use energy, rather than reading about how great and green a building is without any quantification, then this is the book for you.

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