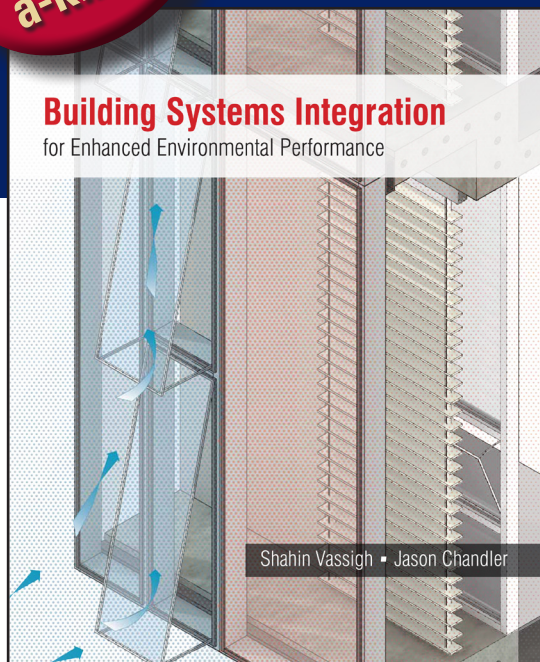


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Shahin Vassigh • Jason Chandler

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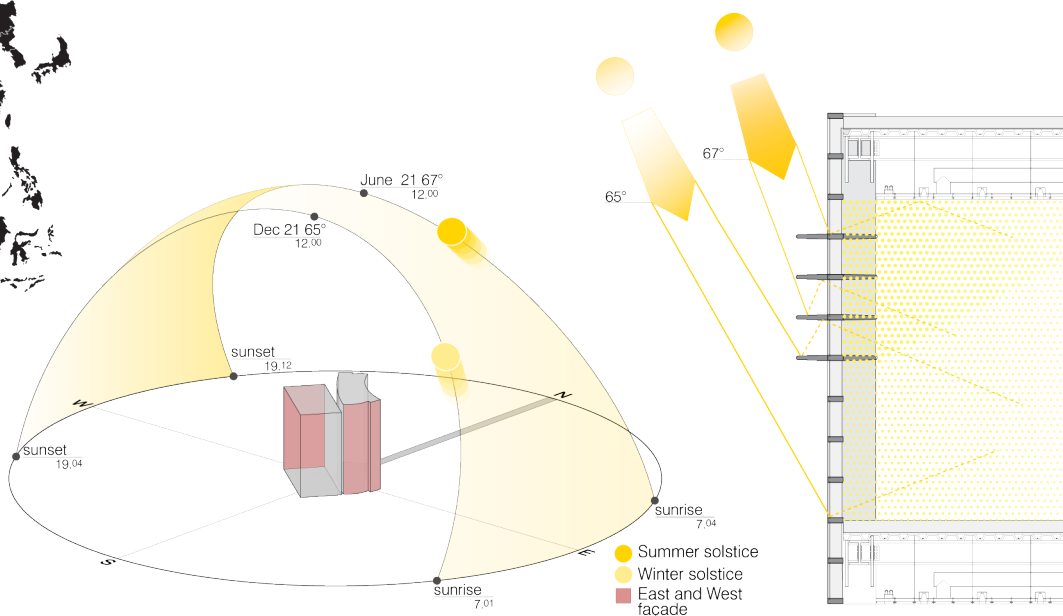
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As the environmental impact of buildings becomes increasingly recognized, the role of building designers and the initial decision-making process, which determines materials, systems, and construction processes, becomes more critical. This timely book addresses sustainability in building design through the development of a series of examples presented as three-dimensional models of well-integrated building systems. The book is organized into three sections based on the integration of paired building systems—structure, envelope, and mechanical—demonstrating the performance of each systems pair in terms of interaction and contribution of each individual system and the synergetic benefits resulting from the unique pairing. The last section of the book addresses buildings that have a higher degree of integration and, therefore, cannot be studied as paired systems. Each building is illustrated with a full graphical display, text and analytical drawings to demonstrate its performance in a particular environment.

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key features

- Incorporates an innovative and unique approach for introducing and organizing building systems into categories based on pairing systems interaction and their performance metrics rather than the traditional typological organization of building systems: structural, mechanical, electrical, envelope and interior systems
- Provides opportunities for learning to optimize the environmental performance of a building system by presenting focused study and analysis of two paired systems represented as models rather than presenting case studies of entire buildings
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- Allows you to assign different performance criteria to each building system during the schematic design process and thereby equips you to evaluate the overall performance of the entire building
- Utilizes an easy-to-understand methodology, illustrated by models, to detail the interaction of systems with a concise narrative, graphics, charts, and tabulated values

about the authors

Shahin Vassigh is an Associate Professor at the Department of Architecture at Florida International University and teaches courses in structures and building technologies. Vassigh has built a nationally recognized body of research work focused on improving building technology and sustainable building design education by developing alternative teaching pedagogies. She received a Master of Architecture, a Master in Urban Planning and a Bachelor of Science in Civil Engineering from University at Buffalo, the State University of New York.

Jason R. Chandler is an Associate Professor in the Department of Architecture at Florida International University and teaches courses in architectural design and building technologies. He is a registered architect in the State of Florida and is the principal of Chandler and Associates in South Miami. His academic and professional activities focus on building construction and its influence on architectural and urban design. His design work has received several awards and has been exhibited nationally and internationally. He received his Bachelor of Architecture from Cornell University and his Master of Architecture from Harvard University.

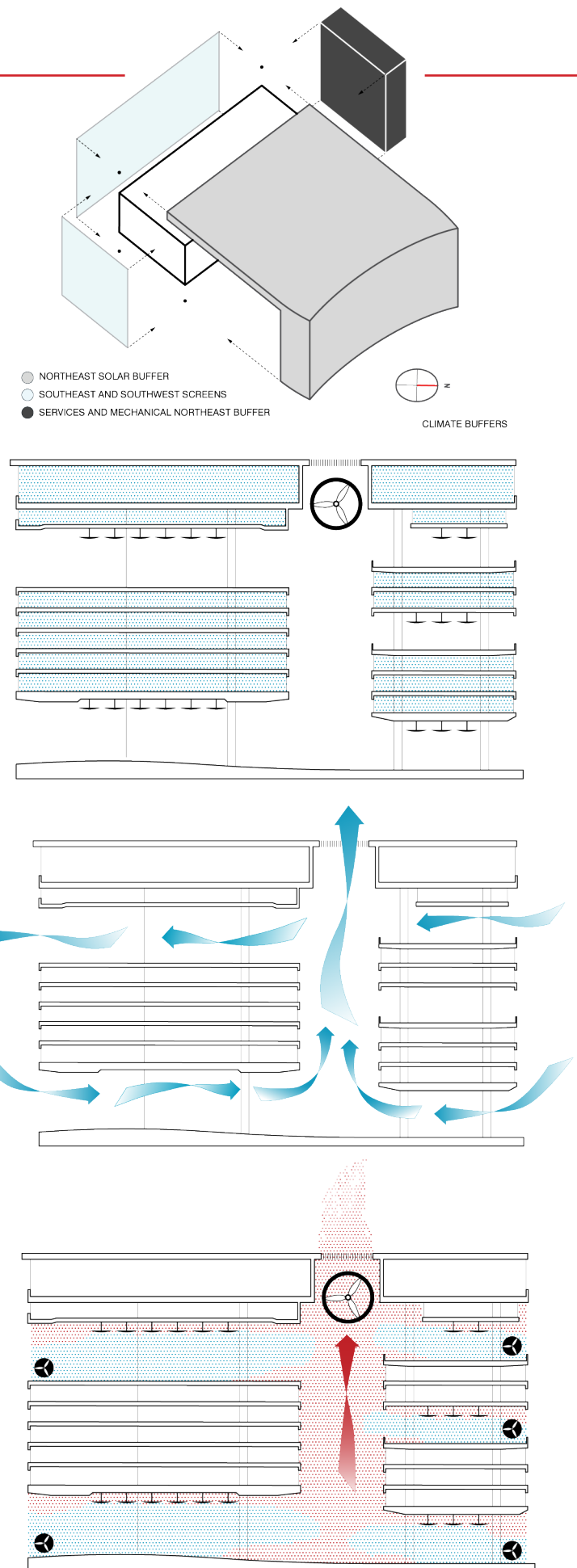


table of contents

Section 1. Structure + Envelope

Singapore National Library, Singapore
William J. Clinton Presidential Center, Little Rock,
Arkansas, USA
Heifer International Headquarters, Little Rock,
Arkansas, USA
Paul L. Cejas School of Architecture, Miami,
Florida, USA
Agbar Tower, Barcelona, Spain
Rehab Basel, Basel, Switzerland
Thermal Baths, Vals, Switzerland
Arup Campus, Solihull, England
Manchester Civil Justice Center, Greater
Manchester, England

Section 2. Envelope + Mechanical

Caltran District Headquarters Building,
Los Angeles, California, USA

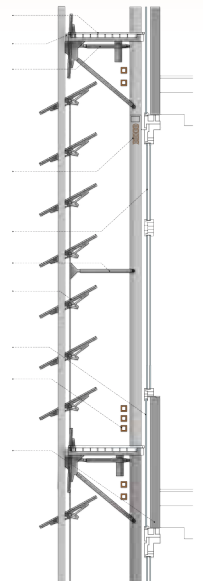
Bregenz Art Museum, Bregenz, Austria
Debis Headquarters Building, Berlin, Germany
Housing Estate in Kolding, Kolding, Denmark
Helicon Building, London, England

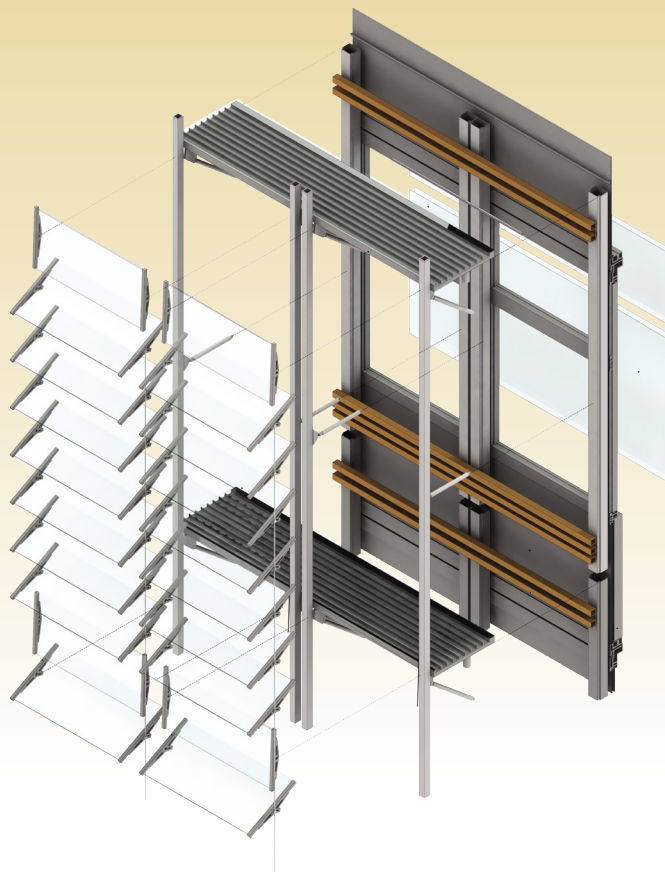
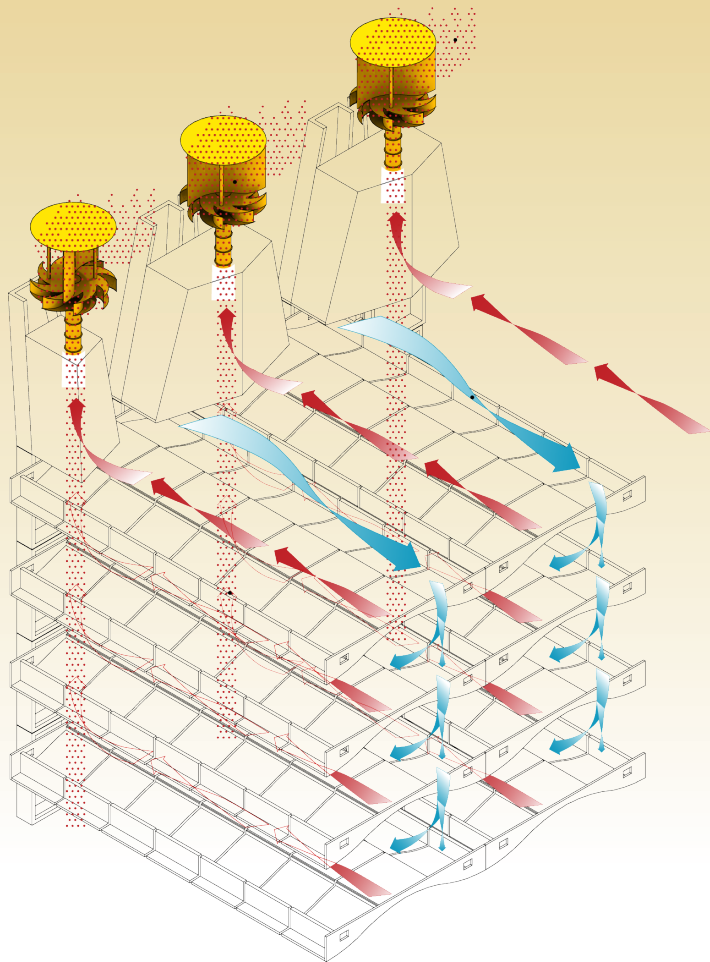
Section 3. Structure + Envelope + Mechanical

Council House 2, Melbourne, Australia
San Francisco Federal Building, San Francisco,
California, USA
Loblolly House, Taylors Island, Maryland, USA
Yale Center for British Art, New Haven,
Connecticut, USA
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Bibliography

Index





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