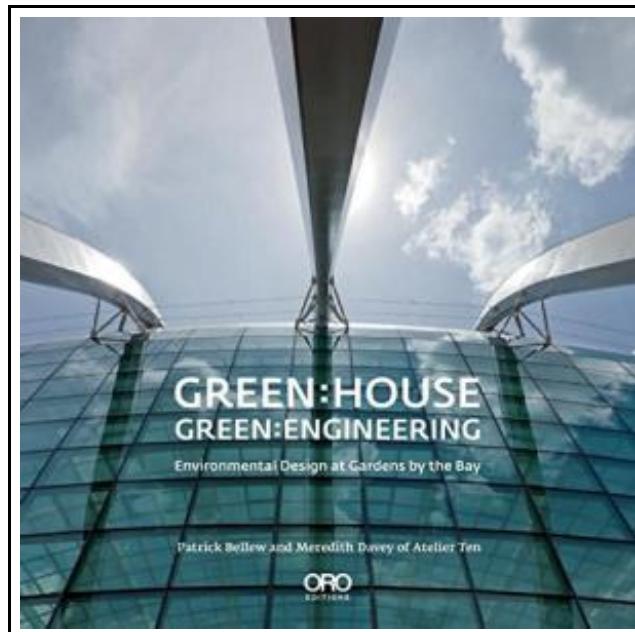


Green House Green Engineering Environmental Design at Gardens by the Bay Singapore



Filesize: 4.18 MB

Reviews

This book is really gripping and intriguing. it was written very perfectly and beneficial. I am easily will get a enjoyment of looking at a created ebook.
(Jaeden Stiedemann Sr.)

GREEN HOUSE GREEN ENGINEERING ENVIRONMENTAL DESIGN AT GARDENS BY THE BAY SINGAPORE

[DOWNLOAD PDF](#)

To read **Green House Green Engineering Environmental Design at Gardens by the Bay Singapore** eBook, you should click the web link below and save the document or have accessibility to additional information which might be relevant to GREEN HOUSE GREEN ENGINEERING ENVIRONMENTAL DESIGN AT GARDENS BY THE BAY SINGAPORE ebook.

ORO Editions. Paperback. Book Condition: New. Paperback. 86 pages. Dimensions: 9.8in. x 9.7in. x 0.5in. The book explores the sustainable design principles and innovative engineering behind the development of two of the world's largest conditioned public conservatories or biomes. Nestled within waterfront gardens, the biomes are the centrepiece of a development that will define Singapore as the world's premier tropical garden city: gardens that are on track to become a national and international exemplar of sustainable practice. Through a combination of photographs, graphics and narratives, the book explores the challenges of building two huge enclosures to recreate, in Singapore's naturally sunny, hot and humid environment, the ideal growing conditions for plants from cool-dry Mediterranean regions and the cool-moist conditions of tropical mountain regions. While the thrust of the narrative will consider the environmental design and engineering approach of Atelier Ten, three other voices reflect upon the landscape, architectural and structural engineering issues that confronted the core members of the integrated design team. As environmental engineers Atelier Ten developed highly innovative passive and active environmental strategies for controlling conditions within the conservatories, while minimising energy demand to exemplar levels. Outside the Biomes the unique Supertree structures house components of the systems that provide cool and dry air to the biomes and also incorporate photovoltaic panels to generate power. The systems run mainly on tree-thinnings - waste material generated by Singapore's National Parks maintenance programme - which are being diverted from landfill to be used as a source of biomass to generate energy and heat. The landscaping incorporates extensive natural water treatment devices to control, attenuate and cleanse the enormous flows of water from the biome roof areas and the hard landscaping areas during tropical storms. These have been seamlessly integrated into the hard and soft landscaping which comes to life during the...



[Read Green House Green Engineering Environmental Design at Gardens by the Bay Singapore Online](#)



[Download PDF Green House Green Engineering Environmental Design at Gardens by the Bay Singapore](#)

Related PDFs



[PDF] DK Readers Day at Greenhill Farm Level 1 Beginning to Read

Access the web link listed below to get "DK Readers Day at Greenhill Farm Level 1 Beginning to Read" PDF file.

[Read Book »](#)



[PDF] Yearbook Volume 15

Access the web link listed below to get "Yearbook Volume 15" PDF file.

[Read Book »](#)



[PDF] Molly on the Shore, BFMS 1 Study score

Access the web link listed below to get "Molly on the Shore, BFMS 1 Study score" PDF file.

[Read Book »](#)



[PDF] The Birds Christmas Carol

Access the web link listed below to get "The Birds Christmas Carol" PDF file.

[Read Book »](#)



[PDF] DK Readers Disasters at Sea Level 3 Reading Alone

Access the web link listed below to get "DK Readers Disasters at Sea Level 3 Reading Alone" PDF file.

[Read Book »](#)



[PDF] DK Readers Flying Ace, The Story of Amelia Earhart Level 4 Proficient Readers

Access the web link listed below to get "DK Readers Flying Ace, The Story of Amelia Earhart Level 4 Proficient Readers" PDF file.

[Read Book »](#)