Computing the Environment: Digital Design Tools for Simulation and Visualisation of Sustainable Architecture
Brady Peters, Terri Peters

DESCRIPTION

Computing the Environment presents practical workflows and guidance for designers to get feedback on their design using digital design tools on environmental performance. Starting with an extensive state-of-the-art survey of what top international offices are currently using in their design projects, this book presents detailed descriptions of the tools, algorithms, and workflows used and discusses the theories that underlie these methods. Project examples from Transsolar Klimaengineering, Buro Happold’s SMART Group, Behnisch Behnisch Architects, Thomas Herzog, Autodesk Research are contextualized with quotes and references to key thinkers in this field such as Eric Winsberg, Andrew Marsh, Michelle Addington and Ali Malkawi.

ABOUT THE AUTHOR

Brady Peters is Assistant Professor in Computational Design at the University of Toronto, Canada. An expert in computational design and architecture, he was Associate Partner in the Specialist Modeling Group at Foster + Partners in London and he holds a Phd in Architecture from the Royal Academy of Fine Arts in Copenhagen. He is one of the Directors of Smartgeometry and regularly lectures internationally at industry and practice-focused events at the intersection of architecture and new technologies.

Terri Peters is an architect and researcher with expertise in sustainable design. She recently completed a PhD in Architecture on the subject in Denmark. Over the past decade, she has published more than 100 texts about sustainable design and new
technologies. As a registered architect in the UK, she has worked on ecological design projects. She teaches undergraduate and graduate level courses in sustainable design and holds a Post-Doctoral research position at the University of Toronto.

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