

### Low Energy Low Carbon Architecture: Recent Advances & Future Directions (Sustainable Energy Developments)

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Providing a complete and in-depth overview of the available knowledge in the area of low energy and low carbon architecture. The scope of this edited book includes several important topics ranging from chapters giving a broad view of the progressing models in ecologically responsible environments to other chapters focussing on recent advances in design strategies and building technologies in low energy heating, cooling, daylighting, materials, and building sustainable systems. Two other essential topics are covered, providing a link between theory and implementation: sustainable energy policies/standards and performance modeling in low energy architecture. Finally, the book will give the readers insight into the future of low energy and low carbon architecture in the beyond-green era and discussed in the broader context of the progressing theories of regenerative design.

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#### **Editorial Review**

#### About the Author

Khaled A. Al-Sallal is currently a professor of architectural engineering and the director of the Daylighting Simulation Laboratory at UAE University. His area of expertise is sustainable design with emphasis on building energy. He has a Ph.D. from Texas A&M University and a Master's degree from Arizona State University. His teaching and research has focused on building performance and simulation, carbon-neutral design, daylighting, and climatic responsive architecture.

In 2011, he established the state-of-the-art Daylighting Simulation Laboratory at UAE University that runs under his technical management. He has produced numerous publications in international refereed journals and scientific conference proceedings, and wrote several chapters in edited books by reputable scientific publishers (Taylor & Francis, Elsevier, Hogrefe & Huber). He is currently the Editor-in-Chief of the EJER and served in the editorial board of four scientific journals.

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