



Sustainable Buildings and Infrastructure: Paths to the Future

By Annie Pearce, Yong Han Ahn, HanmiGlobal Co Ltd

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Construction is one of the biggest industries in the world, providing necessary facilities for human prosperity ranging from the homes in which we live to the highways we drive, the power plants that provide energy for our daily activities, and the very infrastructure on which human society is built.

The construction sector, including the building sector, has among the largest potential of any industry to contribute to the reduction of greenhouse gas emissions. This ambitious and comprehensive textbook covers the concept of embedding sustainability across all construction activities. It is aimed at students taking courses in construction management and the built environment. Written in a lively and engaging style the book sets out the practical requirements of making the transition to a sustainable construction industry by 2020. Case studies are included throughout making the book both a core reference and a practical guide.

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Editorial Review

Review

"Judicious and artful use of colors in the text, headings, pictures, and charts makes this book inviting to read and probably helps students retain the material presented. It will be useful for undergraduate curricula in architectural design, building construction, or construction management, and equally applicable to four-year and two-year colleges." - *P.F. Rad, CHOICE, December 2012*

About the Author

Annie R. Pearce is Associate Professor in the Department of Building Construction, Myers-Lawson School of Construction at Virginia Tech, specializing in sustainable facilities and infrastructure systems. Her areas of expertise include metrics of sustainability for built facilities, green building materials and systems, cost modeling to support sustainability implementation, and in situ performance of sustainable facility technologies.

Yong Han Ahn is Assistant Professor in the Department of Construction Management at East Carolina University and a leader of the Sustainable Design and Construction Management (SDCM) research group. Dr. Ahn's research and teaching focuses on motivating students, construction profession and the wider construction industry to incorporate sustainability into their practices.

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