



# Adapting Buildings and Cities for Climate Change: A 21st Century Survival Guide

*Sue Roaf PhD, David Crichton, Fergus Nicol*

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From the author of the bestseller 'Ecohouse' this challenging and exciting text gives you an insight into the real changes that are necessary to give our modern day built environment both 'sustainability' and 'survivability'.

The book is based on the premise that climate change is going to happen and its impacts on our lives are going to be far worse than generally expected. Sue Roaf argues that many modern buildings are not only 'unsustainable' in themselves but are also having a catastrophic effect on the global climate. In a unique argument, she illustrates that the only way we can hope to survive the following century in tact is if we not only begin to radically reduce CO2 emissions from our buildings and stop building climatically disastrous building types but also build only the buildings that can survive in the changed climates of the future.

Throughout the book, traditional and modern building types are used to: explain the history and impacts of climates past, present and future on buildings; set the scene in terms of the history of building development of where we are now and where we are going in terms of sustainability and survivability of buildings; develop two main scenarios of future building development with the 'business as usual' model and the 'survival plan' model, and to make a list of recommendations based on the two scenarios of what actions should be taken by architects, planners and engineers as well as local and national governments, businesses and ordinary people in ensuring the true sustainable nature of the built environment.

- A unique text that reassesses the fundamentals of sustainable design
- A discussion and design guide providing you with the full picture of true sustainability
- Includes case studies supporting the argument that challenges orthodox architectural design

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