

As different parts of the globe deal with the challenges of coastal settlements in the Anthropocene landscape of increasing uncertainty, the methods of design offer new strategies for developing and testing solutions. These complex problems require collaboration across disciplines, with scientists, planners, engineers, designers, and others able to work together in finding new ways of living in coastal and changing landscapes.

*Sustainable Coastal Design and Planning* is an outstanding collection of essays by leading practitioners and academics from across the globe on design and planning for coastal resilience in the face of climate change. It thoroughly explores the questions of coastal change at different scales and provides international case studies that illustrate diverse strategies in different geographies and cultures. Taken as a whole, they canvas a broad palette of approaches and techniques for engaging these complex problems.

Divided in two parts, this book focuses on how to develop solutions through multidisciplinary design thinking and informs all stakeholders on specific methods and practices that will be needed to work effectively in this dynamic space.

## Contents

### PART1 - NEW WAYS OF THINKING AND WORKING

-

#### *Section I. Shifting Realities*

-

1. Designing the Coast in the Moment of Rain
2. Fraying at the Edges: On Coastal Life and Rising Seas
3. (Re)Think (Re)Design for Resilience

4. Resilience and the Translation of Expertise. Section II Methods and Practices
5. The Joy of Counterintuitivity
6. The Dutch “Room for the River” Program (2006–2017): Landscape Quality as a Binding Agent
7. Drawing a Line in the Sand: Rebuild by Design, Mathematical Modeling, and Blue Dunes
8. Designing Resiliency: Interdisciplinary Geovisualization for Complex Coastal Environments
9. Best Practices for Interdisciplinary Collaboration for Coastal Resiliency
10. Engaging the Community to Envision the Coastal Climate Future

PART 2 - NEW STRATEGIES

-

*Section II. Deltas, Bays, and Estuaries*

11. Structures of Coastal Resilience: Adaptive Design for Jamaica Bay, New York
12. Resilience and Coastal Ecosystems: Three Typologies, Three Design Approaches
13. Resilience of Natural Systems and Human Communities in the Mississippi Delta: Moving beyond Adaptability Due to Shifting Baselines
14. New Orleans, Coastal City
15. The Giving Delta
16. A Fine Dutch Tradition in the Noordwaard
17. Thresholds and Contingencies: A Design Process for Regional Coastal Resilience
18. The Mekong Delta: A Coastal Quagmire. Section IV Sites and Structures

19. The New Hondsbossche Dunes
  20. Adaptive Landscapes for Coastal Restoration and Resilience in Contemporary China
  21. Going with the Flow: Building Resilience in Southeast Queensland
  22. Architectural Strategies for a Dynamic Coast
  23. The Hard Habitats of Coastal Armoring
  24. Armatures for Coastal Resilience
- 

## **Authors Biography**

### **Elizabeth Mossop**

Is Professor and Dean of the School of Design, Architecture and Building at the University of Technology Sydney (UTS). A landscape architect and urbanist with wide-ranging experience in both landscape design and urban planning, Mossop is a founding principal of Spackman Mossop Michaels landscape architects based in Sydney and New Orleans. Her professional practice concentrates on urban infrastructure and open space projects, such as the multiple award-winning Bowen Place Crossing in Canberra, Press Street Gardens in New Orleans, and Sydney's Cook and Phillip Park. She has been involved in many aspects of the post-hurricane reconstruction of New Orleans and the Gulf Coast and the ongoing revitalization of Detroit.

With an academic career spanning 25 years, Mossop has held key roles at universities in both the United States and Australia. Before joining UTS, she was Professor of Landscape Architecture and Director of the Robert Reich School of Landscape Architecture at Louisiana State University, one of the highest-ranked landscape architecture programs in the United

States. Previously, she was the Director of the Masters of Landscape Architecture program at the Harvard Graduate School of Design.

Her research and teaching focuses on landscape and urbanism, through investigation of contemporary landscape design both at the urban scale and at the site scale. Previous publications include *Contemporary Landscape Design in Australia* (BT Latitude, Sydney, 2006); *Hong Kong: Defining the Edge* (Harvard Graduate School of Design, Cambridge, MA, 2001); and *City Spaces: Art and Design* (Craftsman House, Sydney, 2001).

---