Contents

Foreword by David W. Orr ix
Foreword by Donald Watson, FAIA xiii
Preface xv
Acknowledgments xxi
Introduction xxiii

Part 1

CHAPTER ONE: The Ecological Model 1
Ecology 2
Ecology as a Model 3
Waste Debts 5
The Value of Land 7
Paradigm Shift 8
Thinking as a System: Connectivity, Not Fragmentation 9

CHAPTER TWO: Sustainable Design 13
Where Do We Want to Go? 13
Design Matters 13
Why Architects? 14
Green Design versus Sustainable Design 15
Why Now? 16
Approaching Sustainability 17
Place-Based Energy and Resources 18
Principles for Designing Sustainably 18
Where to Start? 20

CHAPTER THREE: Regional Design 23
Evolving from Nonrenewables 25
Another Weak Link: The Power Grid 25
## CONTENTS

The Regional Design  
Water: A Common Denominator  
Make No Small Plans  
The Regional Design Process  
Regional Case Studies  
  Cache Valley, Utah  
  Farmington, Minnesota: Building within the Community Watershed  
  Smart Growth: Southeast Florida Coastal Communities

### CHAPTER FOUR: Sustainable Urban and Community Design  
69

  A Matter of Place  
  Principles for Sustainable Communities  
  Regional Ecology and Biourbanism  
  Sustainable Urban and Community Case Studies  
    Lessons from Belle Glade: Can We Save the Everglades and Sustain Agriculture?  
    Rio Nuevo Master Plan  
    Growing the Great River Park

### CHAPTER FIVE: Architectural Design  
103

  The Site: Challenges and Opportunities  
  Site Design and Environmental Analysis  
  Sustainable Infrastructure  
  The Skin  
  Evolving a Sustainable Design Practice  
  Sustainable Design and Existing Buildings  
  Sustainable Interior Architecture

### Part 2

### CHAPTER SIX: The AIA/COTE Top Ten Green Projects Program  
129

  1997 AIA/COTE Top Ten Green Projects  
  1998 AIA/COTE Top Ten Green Projects  
  1999 AIA/COTE Top Ten Green Projects  
  2000 AIA/COTE Top Ten Green Projects  
  2001 AIA/COTE Top Ten Green Projects  
  2002 AIA/COTE Top Ten Green Projects
CONTENTS

2003 AIA/COTE Top Ten Green Projects 200
2004 AIA/COTE Top Ten Green Projects 218
2005 AIA/COTE Top Ten Green Projects 230
2006 AIA/COTE Top Ten Green Projects 248

Afterword 255
Sustainability Terms 257
Bibliography 261
Index 265
Photo Credits 274