Contents

Sprinking F

ix

Preface

1.	Entering a New World	3
	The Nature of the New World	4
	Learning from China	9
	Learning from the Past	11
	The Emerging Politics of Scarcity	14
	Getting the Price Right	15
	Plan B—A Plan of Hope	17
	I. A CIVILIZATION IN TROUBLE	
	I. A CIVILIZATION IN TROOBLE	
2.	Beyond the Oil Peak	21
	The Coming Decline of Oil	22
	The Oil Intensity of Food	25
	The Falling Wheat-Oil Exchange Rate	29
	Food and Fuel Compete for Land	30
	Cities and Suburbs After Peak Oil	36
	The World After Oil Peaks	38
2	T W Classic Calls distance of gallokok	11
3.	Emerging Water Shortages	41
	Falling Water Tables	42
	Rivers Running Dry	48
	Disappearing Lakes	50
	Farmers Losing to Cities	53
	Scarcity Crossing National Borders	55
	A Food Bubble Economy	57
4.	Rising Temperatures and Rising Seas	59
	Rising Temperature and Its Effects	60
	the state of the s	00
	The Crop Yield Effect	64

	Melting Ice and Rising Seas	68
	More Destructive Storms	74
	Subsidizing Climate Change	77
5.	Natural Systems Under Stress	79
	Shrinking Forests: The Costs	80
	Losing Soil	84
	Deteriorating Rangelands	87
	Advancing Deserts	89
	Collapsing Fisheries	91
	Disappearing Plants and Animals	94
6.	Early Signs of Decline	99
	Our Socially Divided World	100
	Health Challenge Growing	103
	Throwaway Economy in Trouble	
	Population and Resource Conflicts	
	Environmental Refugees on the Rise	
	Failed States and Terrorism	117
	II. THE RESPONSE—PLAN B	
7.	Eradicating Poverty, Stabilizing Population	123
	Universal Basic Education	124
	Stabilizing Population	128
	Better Health for All	131
	Curbing the HIV Epidemic	134
	Reducing Farm Subsidies and Debt	136
	A Poverty-Eradication Budget	
8.	Restoring the Earth	142
	Protecting and Restoring Forests	143
	Conserving and Rebuilding Soils	149
45	Meeting Nature's Water Needs	152
	Regenerating Fisheries	154
	Protecting Plant and Animal Diversity	
	The Earth Restoration Budget	
9.	Feeding Seven Billion Well	163
	Rethinking Land Productivity	164
	Raising Water Productivity	167
64	Producing Protein More Efficiently	170
	New Protein Production Systems	174

Moving Down the Food Chain	177
Action on Many Fronts	179
10. Stabilizing Climate	182
Raising Energy Productivity	185
Harnessing the Wind	187
Hybrid Cars and Wind Power	191
Converting Sunlight to Electricity	193
Energy From the Earth	197
Cutting Carbon Emissions Fast	200
11. Designing Sustainable Cities	204
The Ecology of Cities	206
Redesigning Urban Transport	209
Farming in the City	213
Reducing Urban Water Use	216
The Challenge of Urban Slums	219
Cities for People	221
III: AN EXCITING NEW OPTION	
12. Building a New Economy	227
Shifting Taxes	228
Shifting Subsidies	233
Ecolabeling: Voting with Our Wallets	235
A New Materials Economy	238
New Industries, New Jobs	244
The Environmental Revolution	247
13. Plan B: Building a New Future	249
Listening for Wake-up Calls	250
A Wartime Mobilization	253
Mobilizing to Save Civilization	255
A Call to Greatness	
You and Me	264
Additional Resources	267
Notes	273
Index	345
Acknowledgements	
About the Author	