

# Contents

<b>1 Introduction: Collapse Is Not a Bug, It Is a Feature .....</b>	<b>1</b>
<b>2 The Mother of All Collapses: The Fall of Rome.....</b>	<b>7</b>
2.1 Seneca and His Times .....	7
2.2 Whence Empires? .....	10
2.2.1 The Great Fall.....	14
<b>3 Of Collapses Large and Small .....</b>	<b>23</b>
3.1 The Breakdown of Everyday Things .....	23
3.1.1 Why Ships Don't Have Square Windows.....	23
3.1.2 Why Balloons Pop.....	30
3.2 Avalanches .....	34
3.2.1 The Fall of the Great Towers .....	34
3.2.2 Networks 46	
3.3 Financial Avalanches.....	51
3.3.1 Babylon Revisited .....	52
3.4 Famines .....	67
3.4.1 Malthus Was an Optimist .....	67
3.5 Depletion.....	83
3.5.1 The Shortest-Lived Empire in History .....	83
3.5.2 Tiffany's Fallacy .....	89
3.6 Overshoot.....	98
3.6.1 What's Good for the Bee, Is Good for the Hive .....	103
3.6.2 The Fall of the Galactic Empire .....	112
3.7 Gaia's Death: The Collapse of the Earth's Ecosystem.....	121
3.7.1 What Killed the Dinosaurs? .....	121

- 4 Managing Collapse**..... 139
  - 4.1 Avoiding Collapse..... 139
    - 4.1.1 Fighting Overexploitation ..... 139
    - 4.1.2 Resilience ..... 144
    - 4.1.3 Returning from Collapse ..... 148
    - 4.1.4 Avoiding Financial Collapses..... 152
  - 4.2 Exploiting Collapse..... 157
    - 4.2.1 Hostile Collapses..... 157
    - 4.2.2 Creative Collapsing ..... 161
    - 4.2.3 Pulling the Levers in the Right Direction..... 164
- 5 Conclusion** ..... 169
- Appendix: Mind-Sized World Models**..... 171
- Figure Copyright Notes** ..... 183
- References** ..... 185
- Index**..... 205



<http://www.springer.com/978-3-319-57206-2>

The Seneca Effect

Why Growth is Slow but Collapse is Rapid

Bardi, U.

2017, XVIII, 210 p. 57 illus., 21 illus. in color., Hardcover

ISBN: 978-3-319-57206-2