

CONTENTS

PREFACE	IX
----------------------	----

INTRODUCTION	XVII
---------------------------	------

PART I: Decoding the Technologists

CHAPTER 1: The Imperfections of the Optimization Mindset	3
---	---

Should We Optimize Everything?	6
--------------------------------------	---

The Education of an Engineer	10
------------------------------------	----

The Deficiency of Efficiency	15
------------------------------------	----

What Is Measurable Is Not Always Meaningful	18
---	----

What Happens When Multiple Valuable Goals Collide?.....	19
---	----

CHAPTER 2: The Problematic Marriage of Hackers and Venture Capitalists	25
---	----

The Engineers Take the Reins.....	28
-----------------------------------	----

The Ecosystem of Venture Capitalists and Engineers	31
--	----

The Optimization Mindset Meets Corporate Growth	33
---	----

Hunting for Unicorns.....	37
---------------------------	----

The New Generation of Venture Capitalists	42
---	----

Technology Companies Turn Market Power into Political Power.....	45
--	----

CHAPTER 3: The Winner-Take-All Race Between Disruption and Democracy	51
---	----

Innovation Versus Regulation Is Nothing New.....	53
--	----

Government Is Complicit in the Absence of Regulation	59
--	----

The Fate of Plato's Philosopher Kings	63
---	----

What's Good for Companies May Not Be Good for a Healthy Society	68
---	----

Democracy as a Guardrail	73
--------------------------------	----

PART II: Disaggregating the Technologies

CHAPTER 4: Can Algorithmic Decision-Making Ever Be Fair?..... 79

Welcome to the Age of Machines That Learn	82
Designing Fair Algorithms.....	87
Algorithms on Trial.....	94
A New Era of Algorithmic Accountability	99
The Human Element in Algorithmic Decisions.....	101
How to Govern Algorithms	103
Opening the "Black Box"	107

CHAPTER 5: What's Your Privacy Worth? 111

The Wild West of Data Collection	115
A Digital Panopticon?.....	120
From the Panopticon to a Digital Blackout.....	127
Technology Alone Won't Save Us	129
We Can't Count on the Market, Either	133
A Privacy Paradox.....	137
Protecting Privacy for the Benefit of Society	140
Four Letters That Are Key to Your Privacy.....	142
Beyond GDPR.....	145

CHAPTER 6: Can Humans Flourish in a World of Smart Machines?..... 153

Beware the Bogeyman	156
What Is So Smart About Smart Machines?.....	160
Is Automation Good for the Human Race?.....	165
Plugging into the Experience Machine	167
The Great Escape from Human Poverty.....	170
What Is Freedom Worth to You?.....	172
The Costs of Adjustment	174
Should Anything Be Beyond the Reach of Automation?.....	177
Where Do Humans Fit In?	178
What Can We Offer Those Who Are Left Behind?.....	182

CHAPTER 7: Will Free Speech Survive the Internet? 187

The Superabundance of Speech and Its Consequences.....	191
When Free Speech Collides with Democracy and Dignity.....	198
What Are the Offline Harms of Online Speech?.....	202
Can AI Moderate Content?.....	209
A Supreme Court for Facebook?	213
Moving Beyond Self-Regulation	216
The Future of Platform Immunity	221
Creating Space for Competition	227

PART III: Recoding the Future

CHAPTER 8: Can Democracies Rise to the Challenge? 233

So What Can I Do?.....	237
It's Not Just You, It's Us	239
Rebooting the System.....	243
Technologists, Do No Harm.....	244
New Forms of Resistance to Corporate Power.....	252
Governing Technology Before It Governs Us.....	257

ACKNOWLEDGMENTS 265

NOTES 269

INDEX 305