### Preface
- ix

### Acknowledgments
- xi

#### CHAPTER 1

**Introduction**

1. **A Big New Wave**
   - 1.1 Automated Vehicles Are on the Way  
   - 1.2 When Will We Stop Driving
2. **Vehicles and Trips**
   - 1.3.1 Types of Vehicles
   - 1.3.2 A Typical Trip
3. **Book of Predictions**

**References**
- 22

#### CHAPTER 2

**People**

1. **Older People**
2. **Disabled People**
   - 2.2.1 Barriers Remain
   - 2.2.2 Estimating the Benefit
3. **Young People**
   - 2.3.1 Staying Alive
   - 2.3.2 Why Automated Vehicles Will Be Safer
   - 2.3.3 Freedom
4. **Commuters**
   - 2.4.1 Reducing Congestion
   - 2.4.2 Increasing Congestion
   - 2.4.3 Higher Productivity
4.2 Trucking 76
4.3 Roads 79
  4.3.1 No Need for More Lanes 80
  4.3.2 Smooth Pavement and Bright Lines 82
  4.3.3 Reducing Spending on Safety Countermeasures 83
  4.3.4 Other Changes at the Highway Agency 84
  4.3.5 Highway Agency Funding 85
  4.3.6 New Funding Sources 87
  4.3.7 Auto Companies Own the Roads 88
4.4 Transit 89
  4.4.1 Driverless Transit Vehicles 91
  4.4.2 Competition from Auto Service Companies 91
  4.4.3 Lower-Income Travelers 92
  4.4.4 Curtailing Transit Investment 93
References 93

CHAPTER 5

Institutions 95

5.1 Law Enforcement 95
  5.1.1 Security from Hackers 95
  5.1.2 Big Brother 96
  5.1.3 Low Crime Rates 98
  5.1.4 Few Driving-Related Crimes or Violations 99
  5.1.5 Reduced Police Presence 100
5.2 Lawyers 100
  5.2.1 The Early Days 101
  5.2.2 The Legal Crash 102
5.3 Health Care 102
  5.3.1 Crash Costs 102
  5.3.2 More Expensive Deaths 103
  5.3.3 Fewer Deaths from Air Pollution 104
  5.3.4 Emergency Services 104
5.4 Education 105
  5.4.1 Preschool 105
  5.4.2 Elementary Schools 105
  5.4.3 Middle and High Schools 107
5.4.4 Before and After School Activities 108
5.4.5 Universities 109

References 110

CHAPTER 6

Environment 113

6.1 Noise, Water, and Air 113
6.1.1 Noise 113
6.1.2 Water 114
6.1.3 Energy Production and Transmission 115
6.1.4 CO₂ Emission 118

6.2 Wildlife 121
6.2.1 Extent of Current Problem 121
6.2.2 Automated Vehicles Will Reduce the Toll 122
6.2.3 Habitat Loss 123
6.2.4 More Investment in Animal Protection 123

6.3 Evacuations 124
6.3.1 Future Planning 125
6.3.2 More Central Authority 126

References 127

CHAPTER 7

Wrap-Up 129

7.1 Around the World 129
7.2 Summary 131
7.2.1 Cannot Stop Them 131
7.2.2 Big Changes Ahead 132
7.2.3 Can Try to Prepare 136

Reference 137

About the Author 139
Index 141