

Preface	vii
List of Contributors	ix

Part I Theories, Concepts, and Methods

1. How Many E's in Road Safety?	3
<i>John A. Groeger</i>	
2. Driver Control Theory	13
<i>Ray Fuller</i>	
3. Case-Control Studies in Traffic Psychology	27
<i>Martha Híjar, Ricardo Pérez-Núñez and Cristina Inclán-Valadez</i>	
4. Self-Report Instruments and Methods	43
<i>Timo Lajunen and Türker Özkan</i>	
5. Naturalistic Observational Field Techniques for Traffic Psychology Research	61
<i>David W. Eby</i>	
6. Naturalistic Driving Studies and Data Coding and Analysis Techniques	73
<i>Sheila G. Klauer, Miguel Perez and Julie McClafferty</i>	
7. Driving Simulators as Research Tools in Traffic Psychology	87
<i>Oliver Carsten and A. Hamish Jamson</i>	
8. Crash Data Sets and Analysis	97
<i>Young-Jun Kweon</i>	

Part II Key Variables to Understand in Traffic Psychology

9. Neuroscience and Young Drivers	109
<i>A. Ian Glendon</i>	
10. Neuroscience and Older Drivers	127
<i>Maria T. Schultheis and Kevin J. Manning</i>	
11. Visual Attention While Driving	137
<i>David Crundall and Geoffrey Underwood</i>	
12. Social, Personality, and Affective Constructs in Driving	149
<i>Dwight Hennessy</i>	
13. Mental Health and Driving	165
<i>Joanne E. Taylor</i>	
14. Person and Environment: Traffic Culture	179
<i>Türker Özkan and Timo Lajunen</i>	
15. Human Factors and Ergonomics	193
<i>Ilit Oppenheim and David Shinar</i>	

Part III Key Problem Behaviors

16. Factors Influencing Safety Belt Use	215
<i>Jonathon M. Vivoda and David W. Eby</i>	
17. Alcohol-Impaired Driving	231
<i>Krystall Dunaway, Kelli England Will and Cynthia Shier Sabo</i>	

18. Speed(ing)	249	Part V	
<i>Thomas D. Berry, Kristie L. Johnson and Bryan E. Porter</i>		Major Countermeasures to Reduce Risk	
19. Running Traffic Controls	267	29. Driver Education and Training	403
<i>Richard Retting</i>		<i>Esko Keskinen and Kati Hernetkoski</i>	
20. Driver Distraction	275	30. Persuasion and Motivational Messaging	423
<i>Michael A. Regan and Charlene Hallett</i>		<i>David S. Anderson</i>	
21. Driver Fatigue	287	31. Enforcement	441
<i>Jennifer F. May</i>		<i>Bryan E. Porter</i>	
Part IV		Part VI	
Vulnerable and Problem Road Users		Interdisciplinary Issues	
22. Young Children and "Tweens"	301	32. The Intersection of Road Traffic Safety and Public Health	457
<i>Kelli England Will</i>		<i>David A. Sleet, Ann M. Dellinger and Rebecca B. Naumann</i>	
23. Young Drivers	315	33. Public Policy	471
<i>Patty Huang and Flaura Koplin Winston</i>		<i>Rune Elvik</i>	
24. Older Drivers	339	34. Travel Mode Choice	485
<i>Barbara Freund and Paula Smith</i>		<i>Stephen G. Stradling</i>	
25. Pedestrians	353	35. Road Use Behavior in Sub-Saharan Africa	503
<i>Ron Van Houten</i>		<i>Karl Peltzer</i>	
26. Bicyclists	367	Index	519
<i>Ian Walker</i>			
27. Motorcyclists	375		
<i>David J. Houston</i>			
28. Professional Drivers	389		
<i>Tova Rosenbloom</i>			