

Contents

Preface viii

1. *Introduction* 1
 - 1.1 The escalation of road-traffic casualties 1
 - 1.2 Dangers of road traffic as experienced by the road user 15
 - 1.3 How is it possible that road traffic is allowed to kill and injure so many people? 19
 - 1.4 The purpose and design of the present book 39

2. *Critical determinants of road-user behavior* 41
 - 2.1 Extra motives of the road user 41
 - 2.2 Subjective risk of an accident of the road user 68
 - 2.3 Some persistent problems of the field in the light of the behavioral dynamism proposed 79
 - Driver education 80
 - The young driver 91
 - Road-user enlightenment and 'attitude training' by means of mass publicity campaigns 99

3. *Perceptual-motor skills vs motivation in traffic behavior and accident causation* 113
 - Perception of road signs 115
 - Changeover from the left-hand to the right-hand traffic in Sweden 139
 - Driver performance in prolonged driving 143
 - Skilled performance and accidents 149
 - Spare capacity of drivers 151

4. *Expectancy and the related aspects of the estimation and judgment of the road-user* 155
 - On the measurement of expectancy 181

5.	<i>A model of the driver's decision making and behavior</i>	186
5.1	Introducing the model	186
5.2	Testing the model	203
	Simulating critical features in driver behavior	203
	A study of safety margins in driving	215
6.	<i>On the prevention of traffic accidents</i>	219
6.1	The threshold of the road user's subjective risk as the determinant of the effectiveness of traffic-safety countermeasures	219
6.2	The determination of the total amount of investments, efforts, and sacrifices to promote traffic safety	227
7.	<i>Concluding discussion: safety margins</i>	237
	<i>References</i>	244
	<i>Author index</i>	259
	<i>Subject index</i>	264