



HANDBOOK OF ROAD TECHNOLOGY

M. G. Lay

4th edition



Spon Press

Contents

Acknowledgments for the Fourth Edition

vii

1	Introduction	1
2	Definitions	3
3	History of Roads	11
4	The Management of Roads	39
5	Road Needs	47
6	Road Location	57
7	Residential Streets	77
8	Pavement Materials	97
9	Water in Pavements	171
10	Stabilisation	189
11	Pavement Design	201
12	Bituminous Pavements	255
13	Drainage	295
14	Pavement Performance	307
15	Bridges	355
16	Driver Behaviour	377
17	Traffic Flow and Capacity	407
18	Speeds	453
19	<i>Road Geometry</i>	481
20	Intersections	509
21	Traffic Signs	545
22	Pavement Markings	561
23	Traffic Signals	573
24	Lighting	609
25	Construction	625
26	Maintenance	649
27	Road Vehicles	665
28	Safety	703
29	Road User Costs and Charges	739
30	Road Transport	763
31	Transport Planning	791
32	Environmental Factors	819
33	Peripheral Technologies	843
	<i>References</i>	869
	<i>Index</i>	883