

CE 668 Urban Public Transportation Systems Reading List

General Reference

Alan Black, *Urban Mass Transportation Planning*. New York: McGraw-Hill, 1995.

Canadian Urban Transit Association, *The Canadian Transit Handbook* (3rd Edition). Toronto: Canadian Urban Transit Association, 1993.

George Gray and Lester Hoel (eds.), *Public Transportation*. Englewood Cliffs: Prentice-Hall, 1992.

Vukan Vuchic, *Urban Public Transportation: Systems and Technology*. Englewood Cliffs: Prentice-Hall, 1981.

History of Public Transportation

Alan Black, "The History of Urban Transit," Chapter 2 (pp. 13-40) of *Urban Mass Transportation Planning*, New York: McGraw-Hill, 1995.

For more reading: Brian Cudahy, *Cash, Tokens and Transfers: A History of Urban Mass Transit in North America*, New York: Fordham University Press, 1995.

Transit Demand: Characteristics and Estimation

Sandra Rosenbloom, *Transit Markets of the Future: The Challenge of Change*, Transit Cooperative Research Program Report 28, Transportation Research Board, Washington, DC: National Research Council, 1998.

J. Pucher, "Renaissance of Public Transport in the United States?" *Transportation Quarterly*, Vol. 56, No. 1, Winter 2002, pp. 33-49.

Peter Stopher, "Development of a Route-Level Patronage Forecasting Method," *Transportation*, Vol. 19, No. 3, pp. 201-220, 1992.

Optional: *Traveler Response to Transportation System Changes: Interim Handbook*. Transit Cooperative Research Program, Washington, DC: National Research Council, 2000. Particular chapters that discuss elasticity methods include: "Transit Scheduling and Frequency" (Chapter 9), "Bus Routing and Coverage" (Chapter 10), and "Transit Pricing and Fares" (Chapter 12).

Transit Technology and Service Concepts

Vukan Vuchic, "Urban Passenger Transportation Modes," Chapter 4 (pp. 79-113) of *Public Transportation*, George Gray and Lester Hoel (eds.), Englewood Cliffs: Prentice-Hall, 1992.

"Bus Transit Capacity," Part 2 (100 pp.) of *Transit Capacity and Quality of Service Manual*, Transit Cooperative Research Program, Transportation Research Board, Washington, DC: National Research Council, 1999. **Optional:** "Rail Transit Capacity," (Part 3, 110 pp.).

Kay Fitzpatrick et al., "Location and Design of Bus Stops," *ITE Journal*, Vol. 67, No. 5, pp. 36- 41, May 1997.

Optional: "Customer Access," Chapter 8 (25 pp.) of *The Canadian Transit Handbook*, Toronto: Canadian Urban Transit Association, 1993.

For more reading: Texas Transportation Institute, *Guidelines for the Location and Design of Bus Stops*, Transit Cooperative Research Program Report 19, Transportation Research Board, Washington, DC: National Research Council, 1996.

For more reading: Robert Casey et al., *Advanced Public Transportation Systems: State of the Art Update 2000*. Federal Transit Administration, Report FTA-MA-26-7007-00-1, December 2000.

Service Design and Planning Methods

“Quality of Service,” Part 5 (58 pp.) of *Transit Capacity and Quality of Service Manual*, Transit Cooperative Research Program, Transportation Research Board, Washington, DC: National Research Council, 1999.

Avishai Ceder and Nigel Wilson, “Public Transportation Operations Planning,” Chapter 9 (pp. 395-434) of *Design and Operation of Civil and Environmental Engineering Systems*, Charles ReVelle and Arthur McGarity (eds.), New York: John Wiley and Sons, 1997.

Peter Furth and Nigel Wilson, “Setting Frequencies on Bus Routes: Theory and Practice,” *Transportation Research Record* No. 818, pp. 1-7, 1981.

Optional: Randall Pine et al., *Transit Scheduling: Advanced Manual* (Parts C, D and E), Transit Cooperative Research Program Report 30, Transportation Research Board, Washington, DC: National Research Council, 1998.

Operations: Characteristics and Management

“Transit Operations,” Chapter 13 (15 pp.) of *The Canadian Transit Handbook*, Toronto: Canadian Urban Transit Association, 1993.

C. Boyd, “Some Notes on the Intermittent Dynamics of Transit Service,” *Transportation Research – Part A*, 1983.

Yoram Shiftan and Nigel Wilson, “Absence, Overtime and Reliability Relationships in Transit Workforce Planning,” *Transportation Research – Part A*, Vol. 28A, No. 3, pp. 245-258, 1994.

Performance Monitoring and Management

Gordon Fielding, “Measuring and Monitoring Transit Performance,” Chapter 4 (pp. 59-87) of *Managing Public Transit Strategically*, San Francisco: Jossey-Bass Publishers, 1987.

Howard Benn and Barton-Aschman Associates, *Bus Route Evaluation Standards*, Synthesis of Transit Practice 10, Transit Cooperative Research Program, Transportation Research Board, Washington, DC: National Research Council, 1995.

Peter Furth, *Data Analysis for Bus Planning and Monitoring*, Synthesis of Transit Practice 34, Transit Cooperative Research Program, Transportation Research Board, Washington, DC: National Research Council, 2000.

For more reading: Joseph Berechman, “Analysis of Transit Productivity and Efficiency,” Chapter 6 (pp. 145-181) of *Public Transit Economics and Deregulation Policy*, Vol. 23 of Studies of Regional Science and Urban Economics. New York: Elsevier Science, 1993.

Costs and Financing

Joseph Berechman, “Analysis of Transit Cost and Productivity Structure,” Chapter 5 (pp. 111-143) of *Public Transit Economics and Deregulation Policy*, Vol. 23 of Studies of Regional Science and Urban Economics. New York: Elsevier Science, 1993.

Gordon Fielding, “Effective Budgeting and Financing for Public Transit,” Chapter 5 (pp. 88-116) of *Managing Public Transit Strategically*, San Francisco: Jossey-Bass Publishers, 1987.

John Pucher, "Allocating Federal Transit Subsidies: A Critical Analysis of Alternatives," *Transportation Research Record* No. 967, pp. 14-23.

Transit in Urban Transportation Planning

Gordon Fielding, "Transit in American Cities," Chapter 12 (pp. 287-304) of *The Geography of Urban Transportation*, Susan Hanson (ed), New York: Guilford Press, 1995.

"Transit Use, Automobility, and Urban Form," Chapter 2 (pp. 17-64) of Transportation Research Board Special Report 257, *Making Transit Work: Insight from Western Europe, Canada, and the United States*, Washington, DC: National Research Council, 2001.

US Department of Transportation, *A Guide to Metropolitan Transportation Planning Under ISTEA - How the Pieces Fit Together*, Federal Highway Administration, Report FHWA-PD-95-031, 1995.

US Department of Transportation, *Reporting Instructions for the Section 5309 New Starts Criteria*, Office of Planning, Federal Transit Administration, June 2002.

Don Pickrell, "A Desire Named Streetcar: Fantasy and Fact in Rail Transit Planning," *Journal of the American Planning Association*, Vol. 58, No. 2, pp. 158-176, 1992.