

BOSTON COLLEGE  
Department of Economics

EC 893

M. Kraus

Descriptive Models of Urban Spatial Structure

\*J.K. Brueckner, "The Structure of Urban Equilibria: A Unified Treatment of the Muth-Mills Model," in E.S. Mills, ed., *Handbook of Regional and Urban Economics*, Vol. II, Elsevier, 1987.

\*R.M. Solow, "On Equilibrium Models of Urban Location," in J.M. Parkin, ed., *Essays in Modern Economics*, Longman, 1973.

W. Alonso, *Location and Land Use*, Harvard University Press, 1964.

R.F. Muth, *Cities and Housing*, University of Chicago Press, 1969, Chs. 1-4.

J.V. Henderson, *Economic Theory and the Cities*, Academic Press, 1985, Chs. 1-2.

M.J. Beckmann, "On the Distribution of Urban Rent and Residential Density," *Journal of Economic Theory* 1 (1969), 60-67.

A. Montesano, "A Restatement of Beckmann's Model on the Distribution of Urban Rent and Residential Density," *Journal of Economic Theory* 4 (1972), 329-354.

W.C. Wheaton, "A Comparative Static Analysis of Urban Spatial Structure," *Journal of Economic Theory* 9 (1974), 223-237.

J. Hartwick, U. Schweizer and P. Varaiya, "Comparative Statics of a Residential Economy with Several Classes," *Journal of Economic Theory* 13 (1976), 396-413.

D. Pines and E. Sadka, "Comparative Statics Analysis of a Fully Closed City," *Journal of Urban Economics* 20 (1986), 1-20.

M. Straszheim, "The Theory of Urban Residential Location," in E.S. Mills, ed., *Handbook of Regional and Urban Economics*, Vol. II, Elsevier, 1987.

M. Fujita, *Urban Economic Theory*, Cambridge University Press, 1989, Chs. 1-5.

\*A. Anas and L.N. Moses, "Mode Choice, Transport Structure and Urban Land Use," *Journal of Urban Economics* 6 (1979), 228-246.

\*R.J. Arnott and J.G. MacKinnon, "The Effects of the Property Tax: A General Equilibrium Simulation," *Journal of Urban Economics* 4 (1977), 389-407.

D.K. Richter, "A Computational Approach to Resource Allocation in Spatial Urban Models," *Regional Science and Urban Economics* 10 (1980), 17-42.

Urban Transportation Economics

J.V. Henderson, *Economic Theory and the Cities*, Academic Press, 1985, Ch. 7.

- A.A. Walters, "The Theory and Measurement of Private and Social Cost of Highway Congestion," *Econometrica* 29 (1961), 676-699.
- H. Mohring, *Transportation Economics*, Ballinger, 1976, Ch. 5.
- R.H. Strotz, "Urban Transportation Parables," in J. Margolis, ed., *The Public Economy of Urban Communities*, Resources for the Future, 1965.
- \*M. Kraus, "Scale Economies Analysis for Urban Highway Networks," *Journal of Urban Economics* 9 (1981), 1-22.
- T.E. Keeler and K.A. Small, "Optimal Peak-Load Pricing, Investment, and Service Levels on Urban Expressways," *Journal of Political Economy* 85 (1977), 1-25.
- J. Berechman and D. Pines, "Financing Road Capacity and Returns to Scale Under Marginal Cost Pricing," *Journal of Transport Economics and Policy* 25 (1991), 177-181.
- H. Mohring, "The Peak Load Problem with Increasing Returns and Pricing Constraints," *American Economic Review* 60 (1970), 693-705.
- J.D. Wilson, "Optimal Road Capacity in the Presence of Unpriced Congestion," *Journal of Urban Economics* 13 (1983), 337-357.
- E.T. Verhoef and K.A. Small, "Product Differentiation on Roads: Second-Best Congestion Pricing with Heterogeneity under Public and Private Ownership," mimeo, 1999.
- W.S. Vickrey, "Congestion Theory and Transport Investment," *American Economic Review Proceedings* 59 (1969), 251-260.
- \*R. Arnott, A. de Palma and R. Lindsey, "Economics of a Bottleneck," *Journal of Urban Economics* 27 (1990), 111-130.
- \*R. Arnott, A. de Palma and R. Lindsey, "A Structural Model of Peak-Period Congestion: A Traffic Bottleneck with Elastic Demand," *American Economic Review* 83 (1993), 161-179.
- R. Arnott and M. Kraus, "The Ramsey Problem for Congestible Facilities," *Journal of Public Economics* 50 (1993), 371-396.
- \*H. Mohring, "Optimization and Scale Economies in Urban Bus Transportation," *American Economic Review* 62 (1972), 591-604.
- M. Kraus, "Discomfort Externalities and Marginal Cost Transit Fares," *Journal of Urban Economics* 29 (1991), 249-259.
- \*M. Kraus and Y. Yoshida, "The Commuter's Time-of-Use Decision and Optimal Pricing and Service in Urban Mass Transit," mimeo, 2001.
- W.S. Vickrey, "Pricing in Urban and Suburban Transport," *American Economic Review Proceedings* 53 (1963), 452-465.
- H. Mohring, "The Benefits of Reserved Bus Lanes, Mass Transit Subsidies, and Marginal Cost Pricing in Alleviating Traffic Congestion," in P. Mieszkowski and M.

Straszheim, eds., *Current Issues in Urban Economics*, Johns Hopkins University Press, 1979.

K.A. Small, "Bus Priority and Congestion Pricing on Urban Expressways," *Research in Transportation Economics* 1 (1983), 27-74.

J.V. Henderson, "The Economics of Staggered Work Hours," *Journal of Urban Economics* 9 (1981), 349-364.

K.A. Small, "The Incidence of Congestion Tolls on Urban Highways," *Journal of Urban Economics* 13 (1983), 90-111.

K.A. Small, C. Winston and C.A. Evans, *Road Work: A New Highway Pricing and Investment Policy*, Brookings Institution, 1989.

K.A. Small, *Urban Transportation Economics*, Harwood Academic Publishers, 1992.

#### Normative Models of Urban Spatial Structure

\*E.S. Mills and D.M. de Ferranti, "Market Choices and Optimum City Size," *American Economic Review Proceedings* 61 (1971), 340-345.

R.M. Solow and W.S. Vickrey, "Land Use in a Long Narrow City," *Journal of Economic Theory* 3 (1971), 430-447.

D.A. Livesey, "Optimum City Size: A Minimum Congestion Cost Approach," *Journal of Economic Theory* 6 (1973), 144-161.

E. Sheshinski, "Congestion and the Optimum City Size," *American Economic Review* 63 (1973), 61-66.

A. Dixit, "The Optimum Factory Town," *Bell Journal of Economics and Management Science* 4 (1973), 637-651.

L. Legey, M. Ripper and P. Varaiya, "Effects of Congestion on the Shape of a City," *Journal of Economic Theory* 6 (1973), 162-179.

M. Kraus, "Land Use in a Circular City," *Journal of Economic Theory* 8 (1974), 440-457.

Y. Oron, D. Pines and E. Sheshinski, "The Effect of Nuisances Associated with Urban Traffic on Suburbanization and Land Values," *Journal of Urban Economics* 1 (1974), 382-394.

\*R.J. Arnott and J.G. MacKinnon, "Market and Shadow Land Rents with Congestion," *American Economic Review* 68 (1978), 588-600.

R.J. Arnott, "Unpriced Transport Congestion," *Journal of Economic Theory* 21 (1979), 294-316.

Y. Kanemoto, "Cost-Benefit Analysis and the Second Best Land Use for Transportation," *Journal of Urban Economics* 4 (1977), 483-503.

D. Pines and E. Sadka, "Optimum, Second-Best, and Market Allocations of Resources Within an Urban Area," *Journal of Urban Economics* 9 (1981), 173-189.

T. Miyao, *Dynamic Analysis of the Urban Economy*, Academic Press, 1981,  
Ch. 12.

\*J.G. Riley, "'Gammaville': An Optimal Town," *Journal of Economic Theory* 6 (1973),  
471-482.

\*J.V. Henderson, "Externalities in a Spatial Context: The Case of Air Pollution," *Journal  
of Public Economics* 7 (1977), 89-110.