



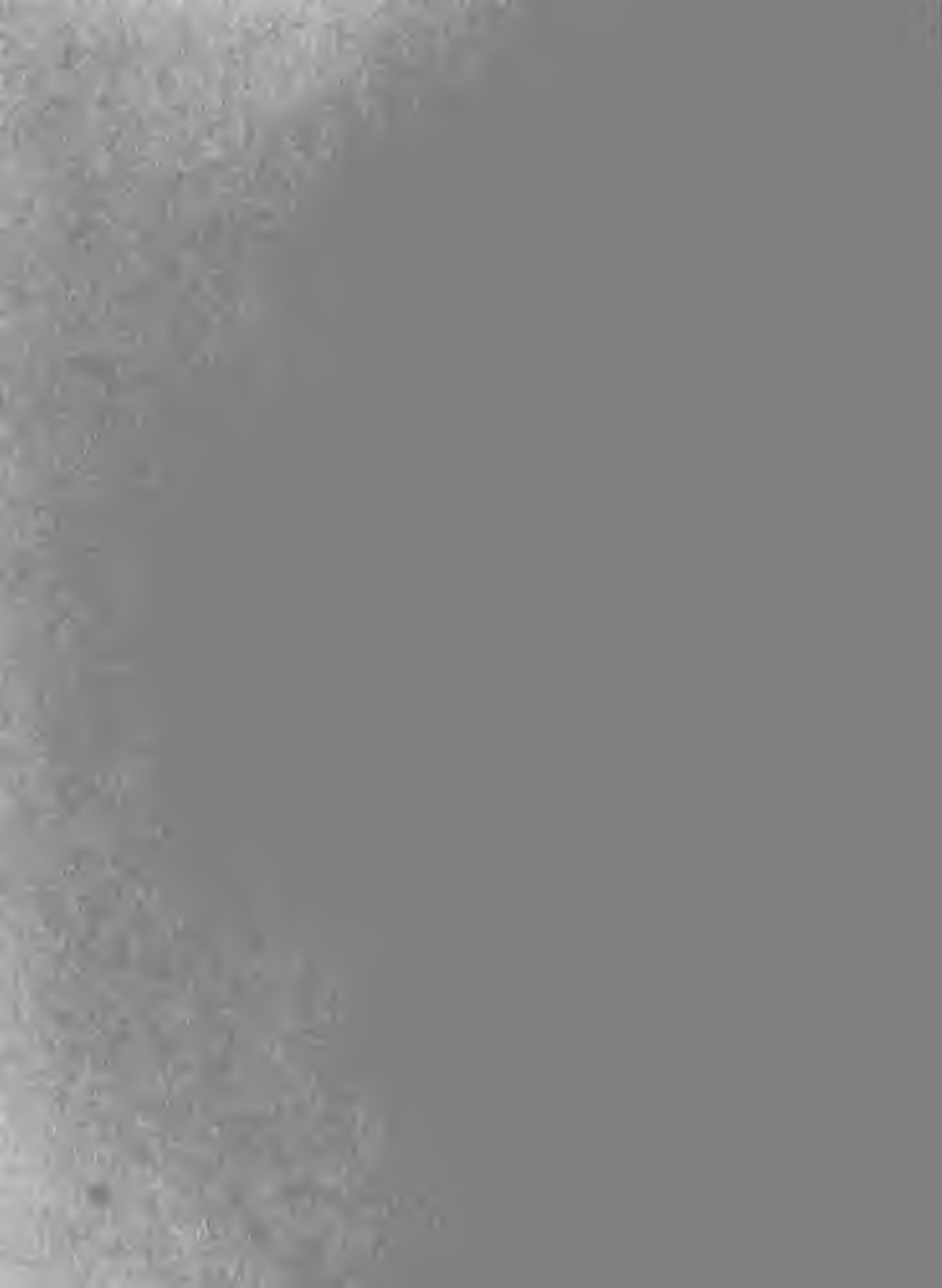
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**GROWTH POLES AND GROWTH CENTRES IN REGIONAL
DEVELOPMENT: A Bibliography**

Om Prakash Mathur
Joint Director
Multilevel Planning Section, Planning Commission
New Delhi

Mrs. Mary Vance, Editor
Post Office Box 229
Monticello, Illinois 61856

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GROWTH POLES AND GROWTH CENTRES IN
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by

Om Prakash Mathur
Joint Director
Multilevel Planning Section
Planning Commission
New Delhi-1

PREFACE

Since the publication of Perroux's paper on Economic Space, Theory and Applications, and the introduction of the concept of pole de croissance there has been an explosion of literature on growth poles and growth centres. Despite these concepts being "vague, indistinct and distressingly over-simplified" (Darwent), and "in need of a thorough semantic reworking" (Hansen), the contribution of literature has been immensely rich particularly in the understanding of the process of economic development in space. Originally conceived as a tool to describe and explain the anatomy of economic development in abstract economic space, in the course of the last two decades the scope of these concepts has significantly widened and includes the normative issues of policy-intervention and planning. The theory is now "viewed as a general theory of development in a simultaneous sectoral-temporal-spatial setting" (Paelinck).

Perroux based the theory of growth poles on the observations of the actual process of development and in this context remarked that "development does not appear everywhere and all at once....

it spreads along diverse channels and has varying terminal effects for the whole of the economy." His proposition that growth poles are independent of a spatial context and, therefore, relevant in abstract economic space let another school of thought emerge which concerned itself to a discussion of the problems of clustering of economic development in areas and centres as well as the overall spatial aspects of development. Many authors, however, consider this development not an extension but a break from Perroux's initial formulation. This school believes that all units have a location and, therefore, poles are not independent of geographical space. The result of this school of thought has been the emergence of the concept of growth centres which have been defined as locations in real space - also described as places of various hierarchies depending on what functions do they perform or serve. This concept deals with the distribution of growth, and allocation of investments, in real space.

The interpretation of the concepts of growth poles and growth centres has been extended by Hirschman, Myrdal and others in their expositions of unbalanced growth and balanced growth strategies. Hirschman has emphasized that investment strategies should concentrate on a few sectors rather than widely dispersed projects; the key sectors would be determined by measuring backward linkage and forward linkage effects in terms of input output maxima. Development takes place with growth being communicated from the leading sectors of the economy to the followers, from one firm to another, which is essentially the same as embedded in the idea of growth poles. On the other hand, balanced growth strategy resembles with the features that are central to the growth centre idea.

Amidst large differences of opinions on what these growth poles and growth centres are and what role do they play in regional economic development there appears to be a convergence of views on some points of significance. See for instance, the following:

.The growth pole is essentially a sectoral and a geographical disturbance. The terms growth pole and growth centres serve for denoting geographical concentration.

.Growth centre strategies have, for the most part been designed to promote the development of lagging regions by concentrating investment so as to reap scale and agglomeration economies. The basic idea underlying these concepts is the alleged superiority of decentralised concentration of development efforts as a strategy for speeding up the process of economic growth and inter-regional integration and equalisation.

.Growth centres have been conceived as points of attraction for migrants who otherwise would go to larger congested urban areas.

Despite the relatively weak theoretical foundation as well as the inadequacy of empirical verification, these concepts are being addressed to important normative questions of regional economic development; and to those concerned with the regional allocation of investments in both time and space. These notions clearly imply that instead of some vague search for balance or equity it is best to concentrate investments in growth centres.

The concepts of growth poles and growth centres have been of interest to several countries. In India the Ministry of Agriculture and Community Development has a major programme on area development through growth centres in 20 places around the country. In the United States under the sponsorship of the U. S. Economic Development Administration, the Universities of Kentucky and Texas are carrying on empirical research on the role of growth centres in

regional development. In Canada the burden of a major research project on growth poles is being shouldered by the Memorial University of Newfoundland. In many African and European countries similar projects are under way. The contribution of United Nations Research Institute for Social Development can be singled out as outstanding for its involvement on a major programme on regional development of which growth poles and growth centres constituted a significant part.

The quest for further work on growth poles and growth centres continues unabated, primarily for the increasing responsibility of the Nations to distribute the fruits of growth to wider areas, to bridge the widening regional gap and to develop the depressed regions. The present attempt is the first stage of the independent research being carried out by the author. The second phase of the research would include the annotation of as many references as possible included in this Bibliography. In the third, final stage it is intended to bring out a rather long review article on growth poles and growth centres; this would trace the development of the concepts in a historical perspective, examine their role in regional development, and describe the contributions of various disciplines as well as the cross-country experiences.

This Bibliography is in the following five parts:

- I. Theoretical Bases, Conceptual Expositions and the Role of Growth Centres and Growth Poles in Regional Economic Development.
- II. Identification Process and Methods of Analyses.
- III. Empirical Bases and Place and Country Studies.
- IV. Background Text References.
- V. Bibliographical References and Areas of Research and Investigation.

The divisions of the Bibliography into these parts should not be considered as mutually exclusive; in fact, this is only an arbitrary division to facilitate examination of the references.

I. THEORETICAL BASES, CONCEPTUAL EXPOSITIONS AND THE ROLE OF GROWTH CENTRES AND GROWTH POLES IN REGIONAL ECONOMIC DEVELOPMENT.

- Allen, A. and Tormod Hermansen. "Economic Growth, Regional Problems and Growth Centres," in Regional Policy in EFTA - An Examination of the Growth Centre Idea, Edinburgh, 1968.
- Alonso, William. Location, Primacy and Regional Economic Development, Programme on Regional and Urban Economics, Cambridge: Harvard University, 1966.
- _____. Industrial Location and Regional Policy in Economic Development, Berkeley: University of California, Institute of Urban and Regional Development, 1968.
- _____. "What are New Towns For," Urban Studies, Vol. 7, No. 1, Glasgow: University of Glasgow, 1970.
- Andrade, Preston C. "The Growth Centre Concept," in Lalit K. Sen (ed.), Readings on Microlevel Planning and Rural Growth Centres, Hyderabad, India: National Institute of Community Development, 1972.
- Berry, Brian J.L. "Alternative Explanations of Urban Rank Relationships," Annals of the Association of American Geographers, Washington, D.C., 1958.
- _____. Geography of Market Centres and Retail Distribution, Foundation of Economic Geography Series, Englewood Cliffs: Prentice-Hall, Inc., 1967.
- _____. "Hierarchical Diffusion: The Basis of Developmental Filtering and Spread in a System of Growth Centres," in Niles M. Hansen (ed.), Growth Centres in Regional Economic Development, New York: The Free Press, 1972.
- Berry, Brian J.L., and W. Garrison. "Recent Developments of Central Place Theory," Papers and Proceedings of the Regional Science Association, Vol. 4, Philadelphia: University of Pennsylvania, 1958.
- Brown, L. A. Diffusion and Growth Poles: Comments on Recent Developments and Inter-Related Work, Columbus, Ohio: Ohio State University, Department of Geography, 1972.
- Cameron, G. C. "Growth Areas; Growth Centres and Regional Conversion," Scottish Journal of Political Economy, Edinburgh, 1970.
- Campbell, J. "A Structural Approach to Growth Pole Theory," paper presented at the IGU Symposium on Problems of Slow Growth of Stagnant Areas Within Developed Countries, St. John's, Newfoundland: Memorial University of Newfoundland, 1972.

- Courtney, David S. Growth Pole Theory: A Survey of Some of its Geographical Characteristics and Issues, St. John's, Newfoundland: Memorial University of Newfoundland, 1971.
- _____. "Spatial Reorganisation and Growth Centre Strategy for a Rural Problem Region: Some Preliminary Problems," paper presented at the IGU Symposium on Problems of Slow Growth of Stagnant Areas Within Developed Countries, St. John's, Newfoundland: Memorial University of Newfoundland, 1972.
- * Darwent, David F. Growth Poles and Growth Centres in Regional Planning - A Review, Berkeley: University of California, Institute of Urban and Regional Development, 1969; earlier published in Environment and Planning, Vol. 1, London, 1969.
- Duskin, Gerald L., and Ronald L. Moomaw. Economic Development Centres: A Review, Staff Paper of the Office of Economic Research, United States Economic Development Administration, Washington, D.C., 1967.
- Ensminger, Douglas and Prodipto Roy. "Growth Centres and Viable Rural-Urban Communities," prepared for the Eleventh World Conference of the Society for International Development, New Delhi, 1969.
- Erickson, R. A. The Role of the Lead Firm in Growth Pole Theory, Seattle: University of Washington, Department of Geography, 1971.
- Friedmann, John. A General Theory of Polarized Development, Los Angeles: University of California, School of Architecture and Urban Planning, 1969.
- Giersch, H. "The Economics of Regional Policy," The German Economic Review, Stuttgart, West Germany, 1965.
- * Gokhman, V. M. and L. N. Karpov. "Growth Poles and Growth Centres," in United Nations Research Institute for Social Development, A Review of the Concepts and Theories of Growth Poles and Growth Centres: Collection of Papers, Programme IV - Regional Development, Geneva, 1970.
- Green, F.H.W. "Community of Interest Areas: Notes on the Hierarchy of Central Places and Their Hinterlands," Economic Geography, Vol. 34, No. 3, Worchester, U.S.A., 1958.
- Hansen, Niles M. "Regional Development and the Rural Poor," The Journal of Human Resources, Madison: University of Wisconsin, 1967.
- _____. "Towards a New Approach in Regional Economic Policy," Land Economics, Madison: University of Wisconsin, 1967.
- _____. "Development Pole Theory in a Regional Context," Kyklos, Vol. XX, No. 3, Switzerland, 1967.

- . The Role of Growth Centres in Comprehensive Regional Development Policy, Washington, D.C.: United States Department of Commerce, 1968.
- . "Growth Centres and Regional Development: Some Preliminary Considerations," U. S. Economic Development Administration Programme on the Role of Growth Centres in Regional Economic Development, Lexington: University of Kentucky, 1968.
- . Rural Poverty and the Urban Crisis: A Strategy for Regional Development, Bloomington: Indiana University Press, 1970.
- . "Criteria for a Growth Centre Policy," in Antoni R. Kuklinsky (ed.), Growth Poles and Growth Centres in Regional Planning, The Hague: Mouton and Co., 1972.
- . Growth Centres in Regional Economic Development, New York: The Free Press, 1972.
- Harper, R. A., T. A. Schmutte and F. H. Thomas. "Recreation-Based Economic Growth and the Growth Point Concept," Land Economics, Madison: University of Wisconsin, 1966.
- Harris, D. "The Idea of the Growth Area," Official Architecture and Planning, Vol. 29, No. 4, 1966.
- Harrison, Bennet. Rural Growth Centres: A Strategy for the Rural Development of Low Income Countries, prepared for the Office of Programme and Policy Coordination, United States Agency for International Development, Washington, D.C., 1967.
- Hermansen, Tormod. Inter-Regional Allocation of Investment for Social and Economic Development: An Elementary Model Approach to Analysis, United Nations Research Institute for Social Development, Geneva, 1968.
- . "Service Trades and Growth Centres," in Regional Policy in EFTA - An Examination of the Growth Centre Idea, Edinburgh, 1968.
- . "Development Poles and Development Centres in National and Regional Development - Elements of a Theoretical Framework for a Synthetical Approach," in United Nations Research Institute for Social Development, A Review of the Concepts and Theories of Growth Poles and Growth Centres: Collection of Papers, Programme IV - Regional Development, Geneva, 1969.
- . Growth Poles and Growth Centres in National and Regional Development, United Nations Research Institute for Social Development, Programme IV - Regional Development, Geneva, 1969.

- _____. "Growth Poles and Service Centres in Regional Planning: Some Geographical Aspects," prepared for the Meeting of the Expert Group on Growth Poles and Growth Centres held under the joint auspices of the European Coordination Centre for Research and Documentation in Social Sciences, Vienna and United Nations Research Institute for Social Development, Geneva, 1969.
- _____. Draft Report of the Expert Group on Growth Poles and Growth Centres, European Coordination Centre for Research and Documentation in Social Sciences, Vienna and United Nations Research Institute for Social Development, Geneva, 1970.
- Hermansen, Tormod. "Development Poles and Related Theories: A Synoptical Review," prepared for the Conference on Growth Poles Hypotheses and Policies held under the joint auspices of the Nueva Universidad Autonoma Da Madrid, Madrid and United Nations Research Institute for Social Development, Geneva, 1970.
- Higgins, Benjamin. Frontiers as Poles De Croissance, United Nations Research Institute for Social Development, Programme IV - Regional Development, Geneva, 1970.
- _____. Regional Interactions, The Frontier and Economic Growth, United Nations Research Institute for Social Development, Programme IV - Regional Development, Geneva, 1971.
- Hirschman, Albert O. "Inter-regional and International Transmission of Economic Growth," in Albert O. Hirschman, The Strategy of Economic Development, New Haven: Yale University Press, 1958.
- Hoover, Edgar M. "Some Old and New Issues in Regional Development," in E.A.G. Robinson (ed.), Backward Areas in Advanced Countries, Proceedings of a Conference held by the International Economic Association, Macmillan, 1969.
- Hughes, J. T., and T. Kozlowski. "Threshold Analysis - An Economic Tool for Town and Regional Planning," Urban Studies, Glasgow: University of Glasgow, 1968.
- Iowa State University of Science and Technology. The Role of Growth Centres in Regional Economic Development (with Supplements A to D), Ames, Iowa: Department of Economics, 1966.
- James, B.G.S. "The Incompatibility of Industrial and Trading Centres: A Critical Appraisal of the Growth Point Concept," Journal of Industrial Economics, Vol. 13, 1964.
- Jansen, A.C.M. "The Value of the Growth Pole Theory for Economic Geography," Tijdschrift Voor Economische en Social Geografie, Vol. 61(3), 1970.
- Johnson, E.A.G. The Organisation of Space in Developing Countries, Cambridge: Harvard University Press, 1970.

- Khan, Waheeduddin. "Growth Poles and Growth Centres," in Lalit K. Sen (ed.), Readings on Microlevel Planning and Rural Growth Centres, Hyderabad, India: National Institute of Community Development, 1972.
- Klaassen, Leo H. "Growth Poles - An Economic View," prepared for the Meeting of the Expert Group on Growth Poles and Growth Centres held under the joint auspices of the European Coordination Centre for Research and Documentation in Social Sciences, Vienna and United Nations Research Institute for Social Development, Geneva, 1969.
- _____. "Growth Poles in Economic Theory and Policy," in United Nations Research Institute for Social Development, A Review of the Concepts and Theories of Growth Poles and Growth Centres, Programme IV - Regional Development, Geneva, 1970.
- Krueger, A. O. "Patterns of Urban Growth and Growth Nodes," in Rural Poverty in the United States, A Report of the President's National Advisory Commission on Rural Poverty, Washington, D.C., 1968.
- Kuklinsky, Antoni R. Regional Development, Regional Policies and Regional Planning Problems and Issues, United Nations Institute for Social Development, Geneva, 1969.
- _____. Regional Inequalities, Regional Development and Regional Industrialisation Policies, United Nations Research Institute for Social Development, Geneva, 1971.
- _____. Local Governments in Regional and National Perspectives: Problems and Issues, United Nations Research Institute for Social Development, Geneva, 1971.
- _____. Growth Poles and Growth Centres in Regional Planning, The Hague: Mouton and Co., 1972.
- Lasuen, J. R. "On Growth Poles," Urban Studies, Vol. 6, No. 2, Glasgow: University of Glasgow, 1969.
- _____. "Urban Hierarchy Stability and Spatial Polarization," Urban Studies, Glasgow: University of Glasgow, 1970.
- Lasuen, J. R. "Urbanisation and Development: The Temporal Interaction Between Geographical and Sectoral Clusters," prepared for the Conference on Growth Poles Hypotheses and Policies held under the joint auspices of the Nueva Universidad Autonoma De Madrid, Madrid and United Nations Research Institute for Social Development, Geneva, 1970.
- _____. "A Generalisation of the Growth Pole Notion," prepared for the International Geographical Association Meeting held at Vitoria, 1971.

- Lewis, John P. "The Problem of Growth Centres," prepared for the Seminar on Accelerating Industrialisation in Districts held at the Small Industry Extension Training Institute, Hyderabad, also published in Siet Studies, Monsoon Issue, Small Industry Extension Training Institute, Hyderabad, India, 1966.
- Malisz, B. "Implications of Threshold Theory for Urban and Regional Planning," Journal of the Town Planning Institute, Vol. 55, No. 3, London, 1967.
- Mathur, Om Prakash. Backward Areas in Poor Countries: Problems and Perspectives of Development, Department of Urban Studies and Planning, Massachusetts Institute of Technology, Cambridge, U.S.A., 1971.
- McKee, D. L., and W. H. Leahy. "Urbanisation, Dualism and Disparities in Regional Economic Development," Land Economics, Vol. XLVI, No. 1, Madison: University of Wisconsin, 1970.
- Misra, R. P. "Regional Issues, Investment Criteria and Strategies for Development," in R. P. Misra (ed.), Regional Planning: Concepts, Techniques, Policies and Case Studies, Mysore, India: Institute of Development Studies, 1969.
- _____. "Growth Poles Hypotheses Re-examined," in United Nations Research Institute for Social Development, A Review of the Concepts and Theories of Growth Poles and Growth Centres: Collection of Papers, Programme IV - Regional Development, Geneva, 1970.
- Morrill, R. L. On the Size and Spacing of Growth Centres, Seattle: University of Washington, 1972.
- _____. Growth Centre: Hinterland Relations, Seattle: University of Washington, 1972.
- Moseley, M. J. Growth Centres - A Shibboleth?, Centre for East Anglian Studies, University of East Anglia, 1972.
- Myrdal, Gunnar. Economic Theory and Underdeveloped Regions, London: Duckworth, 1957.
- Nicholas, Vida. Growth Poles: An Investigation of Their Potential As A Tool for Regional Economic Development, R.S.R.I. Discussion Paper No. 30, Philadelphia: Regional Science Research Institute, University of Pennsylvania, 1969.
- _____. "Growth Poles: An Evaluation of their Propulsive Effect," Environment and Planning, Vol. 1, No. 2, London, 1969.
- Oshima, H. T. "The Strategy of Selective Growth and the Role of Communications," in W. Schramm and D. Lerner (eds.), Communications and Change in Developing Countries, Honolulu, 1967.

- Paquet, G. "Growth Centres and Urban Development," presented to the Conference on Regional and Rural Economic Adjustment Policy Issues, Manitoba, 1970.
- Parr, J. B. "The Nature and Function of Growth Poles in Economic Development," Annals of the Association of American Geographers, Washington, D.C., 1955.
- _____. Growth Poles, Economic Development and Public Policy, Regional Science Research Institute, University of Pennsylvania, Philadelphia, 1968.
- Penouil, M. "Growth Poles in Underdeveloped Regions and Countries," prepared for the Expert Group on Growth Poles and Growth Centres held under the joint auspices of the European Coordination Centre for Research and Documentation in Social Sciences, Vienna and United Nations Research Institute for Social Development, Geneva, 1969.
- Perroux, Francois. "Economic Space, Theory and Applications," Quarterly Journal of Economics, No. LXIV, Cambridge: Harvard University Press, 1950.
- _____. "Note on the Concept of Growth Poles," in David L. McKee, Robert D. Dean and William H. Leahy (eds.), Regional Economics, New York: The Free Press, 1970 and originally published as "Note Sur la Notion de pole de croissance," in Economic Appliquee, 1955.
- Petrella, R. "Some Notes on Growth Poles," in Antoni R. Kuklinsky and R. Petrella (eds.), Growth Poles and Regional Policies, The Hague: Mouton and Co., 1972.
- Rodwin, Lloyd. "Choosing Regions in Development," Public Policy, No. XII, Cambridge: Harvard University Press, 1963, also published in John Friedmann and William Alonso (eds.), Regional Development and Planning: A Reader, Cambridge: M.I.T. Press, 1964.
- _____. Nations and Cities: A Comparison of Urban Growth Strategies, Boston: Houghton Mifflin and Co., 1969.
- Rosenstein - Rodan, P. N. Reflections on Regional Development, Centre for International Studies, Massachusetts Institute of Technology, Cambridge, 1963.
- Rushton, Gerard. "Some Issues in Central Place Theory Relevant to Regional Plan Development," in Lalit K. Sen (ed.), Readings on Microlevel Planning and Rural Growth Centres, Hyderabad, India: National Institute of Community Development, 1972.
- Sen, Lalit K. (ed.). Readings on Microlevel Planning and Rural Growth Centres, Hyderabad, India: National Institute of Community Development, 1972.

Schmidt, C. G. Industrial Structure of Spatial Linkages and Growth Pole Theory, Seattle: University of Washington, 1971.

Steed, G.P.F. Growth Centres and Organisational Space, British Columbia: Simon Fraser University, 1971.

Taylor, W. L. "Growth Area Philosophy," Journal of Town and Country Planning, Vol. 35, 1967.

Tella, T. Di. "The Concept of Polarized Development in Regional Planning: A Sociological Interpretation," in United Nations Research Institute for Social Development, A Review of the Concepts and Theories of Growth Poles and Growth Centres, Programme IV - Regional Development, Geneva, 1970.

Thomas, Morgon D. "Growth Pole Theory: An Examination of Some of Its Basic Concepts," in Niles M. Hansen (ed.), Growth Centres in Regional Economic Development, New York: The Free Press, 1971.

_____. "The Regional Problem, Structural Change and Growth Pole Theory," in Antoni R. Kuklinsky (ed.), Growth Poles and Growth Centres in Regional Planning, The Hague: Mouton and Co., 1972.

_____. Growth Pole Theory: Some Spatial Considerations, Seattle: Department of Geography, University of Washington, 1972.

Tinbergen, J. "The Hierarchy Model of the Size Distribution of Centres," Papers and Proceedings of the Regional Science Association, Philadelphia: University of Pennsylvania, 1966.

Toborg, M. A. Growth Centres: Potential Focal Points for Development Policy, Office of Programme Plans and Analysis, U. S. Economic Development Administration, Washington, D.C., 1967.

Tolosa, H. C. Growth Poles: A Study in the Economics of Spatial Concentration, Unpublished Ph.D. Dissertation, Regional Science Department, University of Pennsylvania, Philadelphia, 1969.

Ullman, Edward L. "Regional Development and the Geography of Concentration," in John Friedmann and William Alonso (eds.), Regional Development and Planning: A Review, Cambridge: M.I.T. Press, 1964.

United Nations Research Institute for Social Development. A Review of the Concepts and Theories of Growth Poles and Growth Centres, Collection of Papers, Programme IV - Regional Development, Geneva, 1970.

Vanneste, O. The Growth Pole and the Regional Economic Policy, Bruges, 1969; Abbreviated form of: Het groeipoolconcept en de regional-economische politiek, Antwerpen, 1967.

- Vellas, F. "Institutional Aspects of Development Poles and Growth Centres," prepared for the Meeting of the Expert Group on Growth Poles and Growth Centres held under the joint auspices of the European Coordination Centre for Research and Documentation in Social Sciences, Vienna and United Nations Research Institute for Social Development, Geneva, 1970.
- Vietorisz, Thomas. "Locational Choices in Planning," in Max Millikan (ed.), National Bureau of Economic Research, New York, 1967.
- Vining, R. "A Description of Certain Spatial Aspects of An Economic System," Economic Development and Cultural Change, Chicago: University of Chicago Press, 1958.
- Winnick, Louis. "Place Prosperity vs People Prosperity: Welfare Considerations in the Geographical Distribution of Economic Activity," in Essays in Urban Land Economics, Los Angeles: University of California, 1966.
- Zaremba, P. "Observations about the Synthetical Approach to Regional Development," in United Nations Research Institute for Social Development, A Review of the Concepts and Theories of Growth Poles and Growth Centres: Collection of Papers, Programme IV - Regional Development, Geneva, 1970.

II. IDENTIFICATION PROCESS AND METHODS OF ANALYSIS

- Andrews, Richard B. "Economic Planning for Small Areas," Land Economics, Vol. XXXIX, No. 2, Madison: University of Wisconsin, 1963.
- Berry, Brian J.L. "Approaches to Regional Analysis: A Synthesis," Annals of the Association of American Geographers, Vol. 54, Washington, D.C., 1958.
- Bonderville, J. R. "A Survey of Recent Techniques for Regional Economic Analysis," in Walter Isard and J. H. Cumberland (eds.), Regional Economic Planning, European Productivity Agency of the Organisation for European Economic Cooperation, Paris, 1961.
- Campbell, J. The Relevance of Input-Output Analysis and Digraph Concepts to Growth Pole Theory, Unpublished Ph.D. Dissertation, Department of Geography, University of Washington, Seattle, 1970.
- _____. Growth Pole Theory, Digraph Analysis and Interindustry Relationships, Social Science Division, University of Wisconsin, Parkside, 1970.
- Cassetti, E., L. J. King and J. Odland. "On the Formal Identification of Growth Poles in a Spatial-Temporal Context," presented at the Canadian Association of Geographers, Manitoba, 1970, also published as "The Formalisation and Testing of Concepts of Growth Poles in a Spatial Context," Environment and Planning, London, 1971.
- Fox, Karl A. Economic Models for Area Development Research, Ames, Iowa: Iowa State University of Science and Technology, 1963.
- Frey, L. "Aspects of the Theory of Socio-economic Regions and its Applications," prepared for the Meeting of the Expert Group on Growth Poles and Growth Centres held under the joint auspices of the European Coordination Centre for Research and Documentation in Social Sciences, Vienna and United Nations Research Institute for Social Development, Geneva, 1969.
- Hagget, Peter and K. A. Gunewardena. "Determination of Population Thresholds for Settlement Functions by Reed-Muench Method," Professional Geographer, New York: American Geographical Society, 1964.
- Hale, C. W. "The Mechanism of the Spread Effect in Regional Development," Land Economics, Vol. XLIII, No. 4, Madison: University of Wisconsin, 1967.
- Harris, John P. Urban and Industrial Concentration in Developing Economics: An Analytical Framework, Department of Economics, Paper No. 53, Massachusetts Institute of Technology, Cambridge, 1970.

- Hermansen, Tormod. "Regional Disaggregation of National Plans within the Complex of National, Sectoral and Regional Planning," prepared for the Informal Meeting on Regional Disaggregation of National Plans, United Nations Research Institute for Social Development, Geneva, 1969.
- _____. "Statistical Requirements for Analysing Centrality, Hinterland Boundaries and Growth Potential of Towns and Cities," in United Nations Research Institute for Social Development, Case Studies on Information Systems for Regional Development, Geneva, 1970.
- Isard, Walter. Methods of Regional Analysis, Cambridge: The M.I.T. Press; New York: John Wiley and Sons, Inc., 1960.
- Isard, Walter and John H. Cumberland (eds.). Regional Economic Planning, Techniques of Analysis for Less Developed Areas, Organisation for European Economic Cooperation, Paris, 1961.
- Klaassen, Leo H. The Economic and Social Development - Guidelines for Programmes, Paris: Organisation for Economic Cooperation and Development, 1965.
- _____. Methods of Selecting Industries for Depressed Areas: An Introduction to Feasibility Studies, Paris: Organisation for Economic Cooperation and Development, 1967.
- Kristensson, Folke. People, Firms and Regions: A Structural Economic Analysis, Stockholm: The Economic Research Institute at the Stockholm School of Economics, 1967.
- Kuehn, J. A., and L. D. Bender. "An Empirical Identification of Growth Centres," Land Economics, Vol. 45, No. 4, Madison: University of Wisconsin, 1969.
- Kuklinsky, Antoni R. "Regional Disaggregation of National Policies, and Plans - Problems, Issues and Solutions," prepared for the Informal Meeting on Regional Disaggregation of National Plans, United Nations Research Institute for Social Development, Geneva, 1969.
- Kuklinsky, Antoni R., and Victor Grosman. Social Factors in Regional Industrial Programming, United Nations Research Institute for Social Development, Geneva, 1970.
- Lewis, W. C., and J. R. Prescott. "Urban Regional Development and Growth Centres: An Econometric Study," Journal of Regional Science, Vol. 2, No. 1, Philadelphia: University of Pennsylvania, 1972.
- Milne, M. D. "Selecting Growth Centres," U. S. Economic Development Administration Programme on the Role of Growth Centres in Regional Economic Development, Austin: University of Texas, 1971.

Moore, C. W. Growth Poles and Industrial Linkage Development Paths: A Research Methodology, Unpublished Ph.D. Dissertation, Seattle: University of Washington, 1971.

Nekrasov, H. N. "A System for the Planned Development of the National Economic Complexes," prepared for the Conference on Growth Poles Hypotheses and Policies held under the joint auspices of the Nueva Universidad Autonoma De Madrid, Madrid and United Nations Research Institute for Social Development, Geneva, 1970.

Nystuen, John D., and Michael F. Dacey. "A Graph Theory Interpretation of Nodal Regions," in Papers and Proceedings of the Regional Science Association, Philadelphia: University of Pennsylvania, 1961.

Paelinck, J. "Operational Models in Regional and Urban Analysis," in Torsten Hagerstrand and Antoni R. Kuklinsky (eds.), Information Systems for Regional Development, Sweden: The Royal University of Lund, 1971.

_____. "Programming a Viable Minimum Investment Industrial Complex for a Growth Centre," in Niles M. Hansen (ed.), Growth Centres in Regional Economic Development, New York: The Free Press, 1972.

Pal, N. M. "Regional Studies and Research for Consistent and Optimal Plan Formulations: The Need for a Right Kind of Orientation," paper presented at the Fifth Regional Science Seminar, Calcutta, India, 1972.

Philbrick, Allen K. "Principles of Areal Functional Organisation in Regional Economic Geography," Economic Geography, Vol. 33, No. 4, Worcester, 1957.

Ramesh, K. S. "Application of Some Mathematical Techniques in Locating Growth Impulses and Service Centres," in Lalit K. Sen (ed.), Readings on Microlevel Planning and Rural Growth Centres, Hyderabad, India: National Institute of Community Development, 1972.

Salih, K. The Growth Pole Model of Economic Development: Preliminary Testing of Two Hypotheses Derived from the Model, Unpublished Hons. Dissertation, Department of Geography, Monash University, 1969.

Spiegelman, Robert G. Review of Techniques of Regional Analysis with Particular Emphasis on Applicability of These Techniques to Regional Problems, Menlo Park: Stanford Research Institute, 1962.

_____. The Structure and Process of Agglomeration, prepared for the Economic Research Service, U. S. Department of Agriculture, Menlo Park: Stanford Research Institute, 1965.

- Stanford Research Institute, School of Planning and Architecture and Small Industry Extension Training Institute. Costs of Urban Infrastructure for Industry as Related to City Size in Developing Countries, Menlo Park (USA), New Delhi (India), and Hyderabad (India), 1969.
- Streit, M. E. "Spatial Association and Economic Linkages between Industries," Journal of Regional Science, Philadelphia: University of Pennsylvania, 1969.
- Tolosa, Hamilton C., and Thomas A. Reiner. "The Economic Programming of a System of Planned Poles," Economic Geography, Vol. 3, Worcester, USA, 1970.
- United Nations. Manual on Regional Planning: Suggested Scope and Content, Economic Commission for Asia and the Far East, Ninth Session, Bangkok, 1969.
- Utria, Ruben D. "Social Variables in Regional Development," prepared for the Regional Development Planning Course held at Santiago, United Nations Research Institute for Social Development, Geneva, 1970.
- Vietorisz, Thomas. "The Planned Inter-regional Location of Industry: Arguments in Favour of a Trade-Not-Aid-Approach," prepared for the Inter-Regional Seminar on Industrial Location and Regional Development held at Minsk, United Nations Industrial Development Organisation, Vienna, 1968.
- Wanmali, Sudhir, and Waheeduddin Khan. "Conceptual and Methodological Dimensions of Central Place Theory," in Lalit K. Sen (ed.), Readings on Microlevel Planning and Rural Growth Centres, Hyderabad, India: National Institute of Community Development, 1972.
- Ziokowski, Janusz A. Methodological Problems in the Sociology of Regional Development, United Nations Research Institute for Social Development, Programme IV - Regional Development, Geneva, 1969.

III. EMPIRICAL BASES AND PLACE AND COUNTRY STUDIES

Alonso, William. Spontaneous Growth Centre in Twentieth Century American Urbanisation, Berkeley: Institute of Urban and Regional Development, University of California, 1970.

Andrade, Preston C. "Pilot Research Projects in Growth Centres," in Lalit K. Sen (ed.), Readings on Microland Planning and Rural Growth Centres, Hyderabad, India: National Institute of Community Development, 1972.

Appalachian Regional Commission. "The Role of Growth Centres and Growth Areas in Appalachian Development," cited in Niles M. Hansen, Growth Centre Policy in the United States, Austin: University of Texas, 1970.

Beg, M.A.A. The Regional Growth Points in Economic Development: A Comparison of West Virginia and West Pakistan, unpublished Ph.D. Dissertation, University of Wisconsin, Madison, 1964.

_____. Regional Growth Points in Economic Development, with Special Reference to West Virginia, University Bulletin Series, No. 6-1, West Virginia, 1965.

Bernard, Philippe J. "Growth Centres in Regional French Policy," prepared for the Conference on Growth Poles Hypotheses and Policies held under the joint auspices of Nueva Universidad Autonoma De Madrid, Madrid and United Nations Research Institute for Social Development, Geneva, 1970.

* Berry, Brian J.L., (ed.). Growth Centres and Their Potentials in the Upper Great Lakes Region, Washington, D.C.: Upper Great Lakes Region, 1967.

_____. "Policy Implications of an Urban Location Model for the Kanpur Region," in P. B. Desai, I. M. Grossack and F. N. Sharma (eds.), Regional Perspective of Industrial and Urban Growth, Macmillan, 1969.

Bhat, L. S. Central Place Hierarchy for a Developing Agricultural Region, Karnal Area (Haryana) as a Case Study, New Delhi: Indian Statistical Institute (forthcoming).

Black, W., and J. V. Simpson. "Growth Centres in Ireland," Irish Banking Review, Dublin, 1968.

Boisier, Sergio. Regional Disaggregation of National Plans, A Case Study of Chile and Poland, United Nations Research Institute for Social Development, Programme IV - Regional Development, Geneva, 1971.

- Bose, Ashish. "The Role of Small Towns in the Urbanisation Process of India and Pakistan," in Lalit K. Sen (ed.), Readings on Microlevel Planning and Rural Growth Centres, Hyderabad, India: National Institute of Community Development, 1972.
- Bracey, H. E. "A Rural Component of Centrality, Applied to Six Southern Countries of the U.K.," Economic Geography, Vol. 32, Worchester, USA, 1956.
- _____. "English Central Villages: Identification, Distribution and Functions," prepared for the Lund Symposium on Problems of Urban Geography, XIV International Geographical Congress, 1960.
- Bylund, Eric. "Growth Centre and Administrative Area Problems within the Framework of the Swedish Location Policy," in Antoni R. Kuklinsky (ed.), Growth Poles and Growth Centres in Regional Planning, The Hague: Mouton and Co., 1972.
- Cameron, Gordon C. "The Regional Problem in the United States: Some Reflections on a Viable Strategy," Regional Studies, New York - Oxford, 1968.
- _____. "Growth Areas, Growth Centres and United Kingdom Regional Policy," prepared for the Conference on Growth Poles Hypotheses and Policies held under the joint auspices of Nueva Universidad Autonoma De Madrid, Madrid and United Nations Research Institute for Social Development, Geneva, 1970.
- Carol, H. Geographic Identification of Regional Growth Centres and Development Regions in Southern Ontario, A Report to the Ontario Department of Economics and Development, Toronto, 1966.
- Chandresekhar, C. S., G. D. Mathur and K. V. Sundaram. The Role of Growth Focii in Regional Development Strategy, Town and Country Planning Organisation, Government of India, New Delhi, 1970.
- Chenery, Hollis B. "Development Policies for Southern Italy," Quarterly Journal of Economics, No. 76, Cambridge: Harvard University Press, 1962, also published in John Friedmann and William Alonso (eds.), Regional Development and Planning: A Reader, Cambridge: The M.I.T. Press, 1964.
- Courtney, David S. The Newfoundland Resettlement Programme: A Case Study in Spatial Reorganisation and Growth Centre Strategy, St. John's, Newfoundland: Department of Geography, Memorial University of Newfoundland, 1972.
- Cumberland, John H. Regional Development Experiences and Prospects in the USA, The Hague: Mouton and Co., 1971.

- Curley, M. D. "Growth Centre Strategy for South Texas," U. S. Economic Development Administration Programme on the Role of Growth Centres in Regional Economic Development, Lexington: University of Kentucky, 1969.
- Desai, P. B., I. M. Grossack and K. M. Sharma (eds.). Regional Perspective of Industrial and Urban Growth: The Case of Kanpur, Papers and Proceedings of the Industrial Seminar on Urban and Industrial Growth of Kanpur Region, Macmillan, 1969.
- Deshmukh, C. D. "On Rural Growth Centres and Area Development," in Lalit K. Sen (ed.), Readings on Microlevel Planning and Rural Growth Centres, Hyderabad, India: National Institute of Community Development, 1972.
- Ford Foundation and the Council for Social Development. Pilot Projects for Integrated Area Development: Preliminary Reports, prepared for the Ministry of Food, Agriculture, Community Development and Cooperation, Government of India, New Delhi, 1969.
- Friedmann, John. Regional Development Policy: A Case Study of Venezuela, Cambridge: The M.I.T. Press, 1966.
- _____. "Poor Regions and Poor Nations: Perspectives on the Problem of Appalachia," Southern Economic Journal, Vol. 32, Chapel Hill, 1966.
- Friedmann, John and Thomas Lackington. "Hyperurbanisation and National Development in Chile: Some Hypotheses," Urban Affairs Quarterly, Vol. II, No. 4, California: Sage Publications, 1967.
- Gersdorff, Ralph von. Regional Information and Regional Planning in Africa, United Nations Research Institute for Social Development, Programme IV - Regional Development, Geneva, 1971.
- Grove, D., and L. Huzar. The Towns of Ghana: The Role of Service Centres in Regional Planning, Planning Research Studies No. 2, Accra: Ghana University Press, 1964.
- Gruchman, Bohdan. "Growth Poles in the Spatial Structure of the Libyan Economy," in Antoni R. Kuklinsky (ed.), Growth Poles and Growth Centres in Regional Planning, The Hague: Mouton and Co., 1972.
- Hansen, Niles M. "A Preliminary Evaluation of Lexington, Kentucky as a Growth Centre for the People of Eastern Kentucky," EDA Programme on the Role of Growth Centres in Regional Economic Development, Lexington: University of Kentucky, 1969.
- _____. "Growth Centre Theory and Policy in the United States," prepared for the Conference on Growth Poles Hypotheses and Policies held under the joint auspices of Nueva Universidad Autonoma De Madrid, Madrid and United Nations Research Institute for Social Development, Geneva, 1970.

- . Intermediate Size Cities as Growth Centres: Applications for Kentucky, The Piedmont Crescent, The Ozarks and Texas, New York: Praeger Publishers, 1971.
- . "Migration Centres and the Regional Commissions: An Analysis of Expected Future Lifetime Income Gains to Migrants from Lagging Regions," U. S. Economic Development Administration Programme on the Role of Growth Centres in Regional Economic Development, Austin: University of Texas, 1971.
- . "Growth Centre Policy in the United States," in Niles M. Hansen (ed.), Growth Centres in Regional Economic Development, New York: The Free Press, 1972.
- Haynes, Kingsley E. "Growth Poles and the Hierarchy of Cities: Some Reflections to Malaysia," prepared for the Urban Development Panel, Southeast Asia Development Advisory Group of the Asia Society, New York, 1970.
- Higgins, Benjamin. "Issues in Canadian Regional Development Policy," prepared for the Conference on Growth Poles Hypotheses and Policies held under the joint auspices of Nueva Universidad Autonoma De Madrid, Madrid and United Nations Research Institute for Social Development, Geneva, 1971.
- Hodge, G. Identification of Growth Poles in East Ontario, A Report to Ontario Department of Economics and Development, Toronto, 1966.
- Humphreys, G. "Services in Growth Centres and Their Implications for Regional Planning with reference to South Wales," Advancement in Science, Vol. 22, No. 97, London, 1965.
- Jakobson, Leo and Ved Prakash. "Urbanisation and Regional Planning in India," Urban Affairs Quarterly, Vol. II, No. 3, California: Sage Publications, 1967.
- Johnson, E.A.G. Market Towns and Spatial Development in India, published by the National Council of Applied Economic Research, New Delhi, 1965.
- . "The Integration of Industrial and Agrarian Developments in Regional Planning," in P. B. Desai, I. M. Grossack and K. N. Sharma (eds.), Regional Perspective of Industrial and Urban Growth: The Case of Kanpur, Macmillan, 1969.
- Kabaya, Ryoichi. Development of Poor Regions: General Considerations and the Case of Japan, Berkeley: Institute of Urban and Regional Development, University of California, 1971.
- Kawalec, W. Statistical Information Systems in Regional Development and Planning in Poland, United Nations Research Institute for Social Development, Programme IV - Regional Development, Geneva, 1969.
- . "Problems of Growth Pole Policy in Poland," prepared for the Conference on Growth Poles Hypotheses and Policies held under the joint auspices of the Nueva Universidad Autonoma De Madrid, Madrid and United Nations Research Institute for Social Development, Geneva, 1970.

- Klein, S. M. "A Comparative Factor Analysis Between Southern Regional Growth Centre and Urban Centre Manufacturing Plants," EDA Programme on the Role of Growth Centres in Regional Economic Development, Lexington: University of Kentucky, 1971.
- Koszegi, Laszlo. "Growth Poles, Growth Centres and Development Policy in Hungary," prepared for the Conference on Growth Poles Hypotheses and Policies held under the joint auspices of the Nueva Universidad Autonoma De Madrid, Madrid and United Nations Research Institute for Social Development, Geneva, 1970.
- Kudiabor, C.D.K. "Growth Poles and Growth Centres in Regional Development Planning in Ghana," prepared for the Conference on Growth Poles Hypotheses and Policies held under the joint auspices of the Nueva Universidad Autonoma De Madrid, Madrid and United Nations Research Institute for Social Development, Geneva, 1970.
- Lawrence, B. "Growth Centre Determination for Del Rio," EDA Programme on the Role of Growth Centres in Regional Economic Development, Austin: University of Texas, 1970.
- Lefebvre, Louis. "Regional Allocation of Resources in India," in John Friedmann and William Alonso (eds.), Regional Development and Planning: A Reader, Cambridge: The M.I.T. Press, 1964.
- Lefebvre, Louis and Mrinal Datta Chaudhuri. Regional Development Experiences and Prospects in South and Southeast Asia, The Hague: Mouton and Co., 1971.
- Lewis, John P. Quiet Crisis in India: Economic Development and American Policy, Washington, D.C.: Brookings Institution, 1962.
- Luttrell, W. F. "Industrial Complexes and Regional Economic Development in Canada," in Antoni R. Kuklinsky (ed.), Growth Poles and Growth Centres in Regional Planning, The Hague: Mouton and Co., 1972.
- Madden, J. L. "Metropolitan Growth Centres in Historical Perspective: Patterns in Economic Growth in Selected Cities in the United States, 1899-1964," EDA Programme on the Role of Growth Centres in Regional Economic Development, Austin: University of Texas, 1971.
- Mathur, Om Prakash. "Urban Growth Policy for India: A Brief Statement of Issues," prepared for a Symposium on Urbanisation held under the auspices of SPURS, Cambridge: Massachusetts Institute of Technology, 1971.
- Mayfield, Robert C. "A Central Place System in Northern India," prepared for the Urban Development Panel, Southeast Asia Development Advisory Group of the Asia Society, New York, 1970.

- Milne, N. D. "Urban Growth and Growth Centres in Texas," EDA Programme on the Role of Growth Centres in Regional Economic Development, Austin: University of Texas, 1971.
- Misra, R. P. "Growth Poles and Growth Centres in the Context of India's Urban and Regional Development Problems," in Antoni R. Kuklinsky (ed.), Growth Poles and Growth Centres in Regional Planning, The Hague: Mouton and Co., 1972.
- Misra, R. P., V.L.S. Prakasa Rao and K. V. Sunderam. Growth Poles and Growth Centres in Regional Planning and Development in India (3 Vols), United Nations Research Institute for Development, Programme IV - Regional Development, Geneva, 1970-71.
- Mitra, Asok. "A Functional Classification of Indian Towns," in Ashish Bose (ed.), Pattern of Population Change in India 1951-61, Bombay: Allied Publishers, 1967.
- Moseley, M. J. The Spatial Impact of Growth Centres: Case Studies in Brittany and East Anglian, unpublished Ph.D. Dissertation, University of Reading, 1972.
- National Council of Applied Economic Research. Market Towns and Spatial Development, Proceedings of a Seminar, NCAER, New Delhi, 1972.
- Nosari, E. J. "The Ozarks: A Growth Centre Strategy," EDA Programme on the Role of Growth Centres in Regional Economic Development, Lexington: University of Kentucky, 1967.
- Organisation for Economic Cooperation and Planning. The Regional Factor in Economic Development: Policies in Fifteen Industrialised OECD Countries, Paris, 1970.
- Penouil, M. "An Appraisal of Regional Development Policy in the Aquitaine Region," in E.A.G. Robinson (ed.), Backward Areas in Advanced Countries, Proceedings of a Conference held by the International Economic Association, Macmillan, 1969.
- Perloff, Harvey S., E. S. Dunn, Jr., E. E. Lampard and R. F. Muth. Regions, Resources and Economic Growth, Baltimore: The Johns Hopkins Press, 1960.
- Perloff, Harvey S., and Vera W. Woods. How a Region Grows: Area Development in the U. S. Economy, Committee of Economic Development, New York, 1963.
- Pioro, Zygmunt. "Growth Poles and Growth Centres Theory As Applied to Settlement Development in Tanzania," in Antoni R. Kuklinsky (ed.), Growth Poles and Growth Centres in Regional Planning, The Hague: Mouton and Co., 1972.
- Pocock, D.C.D. "The Growth Points in the East Midlands: Scunthorpe and Corby," East Midland Geographer, Vol. 4(2), Nottingham, 1966.

- Regulaski, J. "Some Remarks on Development Poles Theory and Its Application in Poland," in United Nations Research Institute for Social Development, A Review of the Concepts and Theories of Growth Poles and Growth Centres, Collection of Papers, Programme IV - Regional Development, Geneva, 1970.
- Rivkin, Malcolm D. Area Development for National Growth: The Turkish Precedent, New York: Praeger Publishers, 1965.
- Robinson, E.A.G. (ed.). Backward Areas in Advanced Countries, Proceedings of a Conference held by the International Economic Association, Macmillan, 1969.
- Robock, Stefen H. "Regional Aspects of Economic Development with Reference to Recent Experiences in North-east Brazil," Papers and Proceedings of the Regional Science Association, Philadelphia: University of Pennsylvania, 1956.
- Rodwin, Lloyd. The British New Towns Policy, Cambridge: Harvard University Press, 1956.
- Rodwin, Lloyd and Associates (eds.). Planning Urban Growth and Regional Development: The Experience of the Guayana Programme of Venezuela, Cambridge: The M.I.T. Press, 1969.
- Ryan, B. "The Criteria for Selecting Growth Centres in Appalachia," Papers and Proceedings of the Association of American Geographers, Vol. 2, 1970.
- Samuels, Marwyn S. "The Urban Hierarchy and Related Systems in Southeast Asia," prepared for the Urban Development Panel, Southeast Asia Development Advisory Group of the Asia Society, New York, 1970.
- Saraceno, Pasquale. "Development Policy in An Overpopulated Area: Italy's Experience," in E.A.G. Robinson (ed.), Backward Areas in Advanced Countries, Proceedings of a Conference held by the International Economic Association, Macmillan, 1969.
- Scott, Peter. "The Hierarchy of Central Places in Tasmania," The Australian Geographer, No. 9, Sydney, 1964.
- Sen, Lalit K. "A New Strategy for Community Development: Planning for Integrated Area Development and Rural Growth Centres," Community Development and Panchayati Raj Digest, C. D. Week Special Number, Vol. 2, No. 2, 1970.
- _____. "Growth Centres and Rural Unemployment," Community Development and Panchayati Raj Digest, C. D. Week Special, Vol. 3, No. 2, 1971.
- _____. "The Need for Microlevel Planning in India," in Lalit K. Sen (ed.), Readings on Micro-Level Planning and Rural Growth Centres, Hyderabad, India: National Institute of Community Development, 1972.

- Sen, Lalit K., Sudhir Wanmali, S. Bose, and Girish K. Misra, and K. S. Ramesh. Planning Rural Growth Centres for Integrated Area Development: A Study of Miryalguda Taluk, Hyderabad, India: National Institute of Community Development, 1971.
- Shackelford, J. "On Thresholds, Takeoffs and Spurts: A Place for SMSA's in Growth Centre Strategy," EDA Programme on the Role of Growth Centres in Regional Economic Development, Lexington: University of Kentucky, 1970.
- Shah, S. M. "Development Through Growth Centres," Kurukshetra, Journal of Community Development and Village Democracy, Vol. 20, No. 3, New Delhi, 1971.
- Shibli, K. National Planning and Growth Pole Policies in Pakistan, United Nations Research Institute for Social Development, Programme IV - Regional Development, Geneva, 1971.
- Siddle, D. J. "A New National Growth Pole for Zambia," Geography, Vol. 56, No. 4, London, 1971.
- Sovani, N. V. Urbanisation and Urban India, New York: Asia Publishing House, 1966.
- Stepanek, J. E., R. P. Lynton and B. S. Venkata Rao. "Industrialisation Beyond the Metropolis: Current Developments in India," Papers and Proceedings of the First Far East Conference of the Regional Science Association, University of Tokyo Press, 1965.
- Turner, Roy (ed.). India's Urban Future; Papers and Proceedings of a Seminar on Urbanisation in India held at the University of California, Berkeley: University of California Press, 1962.
- Ullman, Edward L. "Trade Centres and Tributary Areas of the Philippines," Geographical Review, Vol. 50, New York, 1960.
- United Nations. "Urban Rural Population Distribution and Settlement Patterns in Asia: Their Relation to Development Policies," prepared for the Inter-Regional Seminar on Development Policies and Planning in Relation to Urbanisation, organised by the U.N. Bureau of Technical Assistance Operations and the Bureau of Social Affairs in Cooperation with the Government of the USA, University of Pittsburgh, Pittsburgh, 1966.
- United Nations Research Institute for Social Development. Case Studies on Information Systems for Regional Development, prepared by Tormod Hermansen (Vol. 1) and Sergio Boisier (Vol. 2), Geneva, 1970.
- United States Department of Commerce. Area Development Policies in Britain and the Countries of Common Market, Washington, D.C., 1965.

- Vito Francesco. "Problems of the Under-developed Regions of Italy," in E.A.G. Robinson (ed.), Backward Areas in Advanced Countries, Proceedings of a Conference held by the International Economic Association, Macmillan, 1969.
- Wanmali, Sudhir. "Location of Existing and Potential Growth Centres," in Lalit K. Sen (ed.), Readings on Microlevel Planning and Rural Growth Centres, Hyderabad, India: National Institute of Community Development, 1972.
- Withington, W. A. "The Intermediate City in the Developing World of Southeast Asia," prepared for the Urban Development Panel, Southeast Asia Development Advisory Group of the Asia Society, New York, 1970.

IV. BACKGROUND TEXT REFERENCES

- Alonso, William. Equity and Its Relation to Efficiency in Urbanisation, Berkeley: Institute of Urban and Regional Development, University of California, 1968.
- _____. "Urban and Regional Imbalances in Economic Development," Economic Development and Cultural Change, Chicago: University of Chicago Press, 1969.
- _____. The Question of City Size and National Policy, Berkeley: Institute of Urban and Regional Development, University of California, 1970.
- _____. The Economics of Urban Size, Berkeley: Institute of Urban and Regional Development, University of California, 1970.
- Bos, Hendricus Cornelis. Spatial Dispersion of Economic Activity, Rotterdam: Universitaire Pers, 1965.
- Boudeville, J. R. Problems of Regional Economic Planning, Edinburgh: Edinburgh University Press, 1966.
- Boventer, Edwin von. "Spatial Organisation Theory as a Basis for Regional Planning," Journal of the American Institute of Planners, Vol. XXX, No. 2, Washington, 1964.
- Chenery, Hollis B. "Comparative Advantage and Development Policy," American Economic Review, Providence: Brown University, 1961.
- Chinitz, Benjamin. "Appropriate Goals for Regional Economic Policy," Urban Studies, Vol. 3, No. 1, Glasgow: University of Glasgow, 1966.
- Dunham, David M. and Jos. G. M. Hilhorst (eds.). Issues in Regional Planning, The Hague: Institute of Social Studies, 1971.
- Friedmann, John. "Locational Aspects of Economic Development," Land Economics, Madison: University of Wisconsin, 1956.
- _____. "The Urban-Regional Frame for National Development," International Development Review, Washington, D.C., 1966.
- Friedmann, John and William Alonso. Regional Development and Planning: A Reader, Cambridge: The M.I.T. Press, 1964.
- Greenhut, Melvin L. "Size of Markets vs Transport Costs in Industrial Location Surveys and Theory," Journal of Industrial Economics, Oxford, 1960.
- Hanson, Niles M. "How Regional Policy can Benefit from Economic Theory," Growth and Change, Vol. 1, No. 1, Lexington: University of Kentucky, 1970.

- Harvey, Leiberstein. Economic Backwardness and Economic Growth: Studies in the Theory of Economic Development, New York: John Wiley, 1957.
- Hagerstrand, T. Innovation Diffusion in a Spatial Process, Chicago, 1967.
- Hermansen, Tormod. Spatial Organisation and Economic Development: The Scope and Task of Spatial Planning, United Nations Research Institute for Social Development, Programme IV - Regional Development, Geneva, 1969.
- Hirshman, Albert O. The Strategy of Economic Development, New Haven: Yale University Press, 1958.
- Hoselitz, Bert F. (ed.). The Progress of Underdeveloped Areas, Chicago: University of Chicago Press, 1952.
- Isard, Walter. Location and Space Economy - A General Theory Relating to Industrial Location, Market Areas, Land Use Trade and Urban Structure, Cambridge: The M.I.T. Press and New York: John Wiley and Sons, 1956.
- _____. Methods of Regional Analysis, Cambridge: The M.I.T. Press and New York: John Wiley and Sons, 1960.
- Kain, John F. National Priorities for Regional Development, prepared for the Programme on Regional and Urban Economics, Cambridge: Harvard University, 1970.
- Klaassen, Leo H. The Role of Social Equipment and Environment in Regional Economic Growth, United Nations Research Institute for Social Development, Rotterdam - Geneva, 1971.
- Kuklinsky, Antoni R. Goals in Regional Policies and Objectives in Regional Planning, United Nations Research Institute for Social Development, Geneva, 1970.
- _____. Macro Regional Planning in the Developed Countries, United Nations Research Institute for Social Development, Programme IV - Regional Development, Geneva, 1971.
- _____. (ed.). Regional Information and Regional Planning, The Hague: Mouton and Co., (forthcoming).
- Leven, Charles L. "Establishing Goals for Regional Economic Development," Journal of the American Institute of Planners, Vol. XXX, No. 2, Washington, D.C., 1964.
- Losch, August. The Economics of Location, translated from the Second Revised Edition by William H. Woglom with the assistance of Wolfgang F. Stopler, New Haven, Connecticut: Yale University Press, 1954.

- Mennes, L., J. Tinbergen and J. G. Wardenburg. The Element of Space in Development Planning, Amsterdam: North-Holland Publishing Company, 1969.
- Meyer, J. R. "Regional Economics: A Survey," American Economic Review, Vol. 53, Part 1, Providence: Brown University, 1963, also published in L. Needleman (ed.), Regional Economics, Penguin Modern Economic Readings, 1968.
- Nelson, Joan. "Urban Growth and Policies in Developing Nations," in Barbara Ward, J. D. Runnals and Lenore D! Anjou (eds.), The Widening Gap, A Report of the Columbia Conference on International Economic Development, Columbia University Press, 1971.
- Richardson, H. W. Regional Economics, New York: Praeger Publishers, 1969.
- Rivkin, Malcolm D. "Urbanisation and National Development: Some Approaches to the Dilemma," prepared for the Inter-Regional Seminar on Development Policies and Planning in Relation to Urbanisation, Pittsburgh: University of Pittsburgh, 1966.
- Robinson, E.A.G. "Location Theory, Regional Economics and Backward Areas," in E.A.G. Robinson (ed.), Backward Areas in Advanced Countries, Proceedings of a Conference held by the International Economic Association, Macmillan, 1969.
- Robock, Stefan H. "Strategies for Regional Economic Development," Papers and Proceedings of the Regional Science Association, Philadelphia: University of Pennsylvania, 1965.
- Thompson, Wilbur R. A Preface to Urban Economics, prepared for the Resources for the Future, Inc., Baltimore: The Johns Hopkins Press, 1965.
- United Nations. Seminar on Regional Planning, organised by the Technical Assistance Administration, The Economic Commission for Asia and the Far East and the Bureau of Social Affairs, New York, 1958.
- _____. "Economic Aspects of Urbanisation," prepared for the Inter-Regional Seminar on Development Policies and Planning in Relation to Urbanisation, organised by the United Nations Bureau of Technical Assistance Operations and the Bureau of Social Affairs in Cooperation with the Government of the United States of America, University of Pittsburgh, Pittsburgh, 1966.
- _____. Concepts and Methods of Area Programming for Community Development, U. N. Economic Bulletin for Latin America, Vol. XII, No. 1, New York, 1967.

V. BIBLIOGRAPHICAL REFERENCES AND AREAS OF RESEARCH AND INVESTIGATION

- Berry, Brian J.L., and Fred Allan. Central Place Studies: A Bibliography of Theory and Application, Regional Science Research Institute, University of Pennsylvania, Philadelphia, 1965.
- Ford Foundation. "Documentation for Pilot Research Projects in Growth Centres," prepared for use in the programme of Pilot Research Projects in Growth Centres, initiated by the Ministry of Food, Agriculture, Community Development and Cooperation, Government of India, New Delhi, 1970.
- Friedly, Philip H. Urban Growth and Population Distribution: Research for Future Policy Development, prepared for the United States Department of Housing and Urban Development, Washington, D.C., 1971.
- Friedmann, John. "Regional Planning and Nation-Building - An Agenda for International Research," Economic Development and Cultural Change, Vol. 16, No. 1, Chicago: University of Chicago Press, 1967.
- Kuklinsky, Antoni R. "International Research on Regional Development and Implications for Regional Statistics," prepared for the United Nations European Seminar on Regional Statistics, Statistical Commission and Economic Commission for Europe, Warsaw, 1969.
- . Research on Regional Development within the Framework of UNRISD, United Nations Research Institute for Development, Geneva, 1971.
- Leven, Charles L. The Role of Regional Data Banks in the Context of a System of National and Local Data Banks, Institute of Urban and Regional Studies, Washington University, St. Louis.
- Mabogunje, Akin L. "Draft Proposal for Research on the Development of Growth Poles," prepared for the Conference on Growth Poles Hypotheses and Policies held under the joint auspices of Nueva Universidad Autonoma De Madrid, Madrid and United Nations Research Institute for Social Development, Geneva, 1970.
- Pal, Manindra Nath. Information System and Regional Development in India, United Nations Research Institute for Social Development, Geneva, 1970.
- Resources for the Future, Inc. Design for a Worldwide Study of Regional Development, A Report to the United Nations on a Proposed Research-Training Programme, Baltimore: The Johns Hopkins Press, 1966.

Rodwin, Lloyd. First Stage Research Prospectus on the Economics of Urbanisation, prepared for the Centre for Housing, Building and Planning, United Nations, New York, 1970.

Storey, Keith J. Growth Poles and Growth Centres: A Selected Bibliography, Department of Geography, Memorial University of Newfoundland, Canada, 1972.

United Nations Industrial Development Organisation. "Industrial Location, Regional Development and Related Subjects - A Partial Annotated Bibliography," prepared for the Inter-Regional Seminar on Industrial Location and Regional Development, Minsk, 1968.

United Nations Research Institute for Social Development. Training in Comprehensive Regional Development and Planning, Material for Discussion, Programme IV - Regional Development, Geneva, 1969.

_____. "Relationships Between Users and Data Banks," Final Report of the Group for the International Expert Meeting on Data Banks for Development, Geneva, 1971.

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