

## Bibliography

- AAAS Air Conservation Commission. 1965. *Air Conservation*. American Association for the Advancement of Science: Washington, D.C. See Section on 'Air Zoning', p. 56.
- Agnew, H. J., Billings, J., Imberger, J. and Wallace, D. F. 1976. *The Dynamics of the Blackwood River Estuary. Technical Report No. 1 to the Estuary and Marine Advisory Committee of the Environmental Protection Authority of Western Australia*. 394 pp.
- Andrews, B. 1975. *Monthly Meeting of the Indiana Air Pollution Control Board (APCB), March 26, 1975*. Memorandum, Holcomb Research Institute, Indianapolis. 8 pp.
- Ayyad, M. A. 1975. *Systems Analysis of Mediterranean Desert Ecosystems of Northern Egypt, Progress Report No. 1*. University of Alexandria, Egypt. [177 pp]
- Ayyad, M. A. 1976. *Systems Analysis of Mediterranean Desert Ecosystems of Northern Egypt, Progress Report No. 2*. University of Alexandria, Egypt. [Part I, 214 pp; Part II, 66 pp]
- Baier, W. 1973. Crop-weather analysis model: Review and model development. *Journal of Applied Meteorology* 12, 937-947.
- Batty, M. 1974. Systems modelling and planning. In: J. Peraton and R. P. Baxter (Editors), *Models, Evaluations and Information Systems for Planning*. MPT Construction: Cambridge, England.
- Beck, M. B. and Young, P. C. 1975. A dynamic model for DO-BOD relationships in a non-tidal stream. *Water Research* 9, 769-776.
- Beck, M. B. and Young, P. C. 1976. Systematic identification of DO-BOD model structure. *A.S.C.E., Journal of Environmental Engineering Division* 102, No. EE5, pp. 909-927.
- Bennett, D., Tronson, K. and Wilcox, D. 1973. Improving station management by 'The Pastoral Game'. *Pastoralist and Grazier* 17 (28): 26, 28.
- Benyon, P. R. 1972. Computer modelling and interdisciplinary teams. *Search* 3, 250-256.
- Benyon, P. R. 1976. Improving and standardizing continuous simulation languages. *Proceedings of Conference, Simulation Special Interest Group*, Melbourne, Australia, May 1976. pp. 130-140.
- Berry, D. and Steiker, S. 1974. The concept of justice in regional planning: Justice as fairness. *American Institute of Planners Journal* 40, 414-421.
- Biswas, A. K. 1974. Mathematics and computers. In: A. E. Utton and D. H. Henning (Editors) *Interdisciplinary Environmental Approaches*. Educational Media Press: Costa Mesa, Calif. pp. 154-167.
- Biswas, A. K. 1975a. Systems analysis for water management in developing countries. *Proceedings of the Second World Congress of the International Water Resources Association*, New Delhi, India, 4, 39-45.
- Biswas, A. K. 1975b. Systems approach to water management. *Bulletin of the International Commission on Irrigation and Drainage*, January, 1975. pp. 12-19.
- Biswas, A. K. 1976. *Systems Approach to Water Management*. McGraw-Hill: New York. 429 pp.
- Bowne, N. E., Boyer, A. E., Shenfeld, L. and Cooper, D. G. 1971. A simulation model for air pollution over Toronto. *Fifth Canadian Meteorological Congress*. 22 pp.

- Brotchie, J. F. 1969. A general planning model. *Management Science* 16, 265-266.
- Brotchie, J. F., Toakley, A. R. and Sharpe, R. 1971. A model for national development. *Management Science* 18, B14-18.
- Burns, J. R. 1975. Error analysis of non-linear simulations. *Institute of Electrical and Electronic Engineers Transactions. Systems, Man, and Cybernetics SMC-5*: 331-340.
- Clymer, A. B. 1971. *Simulation Councils Proceedings* 1, 115.
- Crosbie, R. F. 1975. Interaction in continuous system simulation languages. *Proceedings of the International Association for Analog Computation* 17: 303-306.
- Dee, N., Griffin, J., Warner, M. and Watkins, G. 1975. An assessment of the usage of environmental assessment methodologies in environmental impact statements. *Design Method Group/Design Research Society Journal* 9, 4-9.
- Duke, R. D. 1975. *Gaming: The Future's Language*. Halsted Press: New York. 240 pp.
- Forrester, J. W. 1971. Counterintuitive behavior of social systems. *Technology Review* 73(3): 52-68 (reprinted in *Simulation* 16, 61).
- Fransz, H. G. 1974. *The Functional Response to Prey Density in an Acarine Population*. Centre for Agricultural Publishing and Documentation: Wageningen. 143 pp.
- Frenkiel, F. N. 1957. Atmospheric pollution in growing communities. *Annual Report of the Smithsonian Institution, Washington, for 1956*: 269-299.
- Frenkiel, F. N. 1959. Atmospheric diffusion in air-pollution studies. In: *Proceedings of the Seventh Hydraulic Conference*. State University of Iowa, Iowa City. pp. 111-131.
- Goodall, D. W. 1974. Problems of scale and detail in ecological modelling. *Journal of Environmental Management* 2, 149-157.
- Goodall, D. W. 1975. Ecosystem modeling in the Desert Biome. In: B. C. Patten (Editor) *Systems Analysis and Simulation in Ecology*. Academic Press: New York. 3, 73-90.
- Gorstko, A. B. and Surkov, F. A. 1975. O dinamicheskoi modeli funktsionirovaniya vodnykh soobshchestv Azovskogo Morya. In: V. A. Kovda, T. G. Gilmanov and N. D. Dunayeva (Editors) *Imitatsionnoe Modelirovanie i Ekologia*. Izdat. 'Nauka': Moscow. pp. 35-43. (See also SCOPE 1975b below).
- Hay, J. L., Pearce, J. G. and Narotam, M. D. 1975. Simulation language implementation on minicomputers. *Proceedings of the International Associations for Analog Computation* 17, 260-269.
- Holcomb Research Institute. 1976. *Environmental Modeling and Decision Making: The United States Experience*. Praeger Publishers: New York. 152 pp.
- Holling, C. S. 1973. Resilience and stability of ecological systems. *Annual Review of Ecology and Systematics* 4, 1-23.
- Holling, C. S. 1975. *Spruce Budworm/Forest Management: Summary of a Workshop held in Fredericton, N.B.* Institute of Resource Ecology, University of British Columbia: Vancouver. 50 pp.
- Holling, C. S. [Yorque, R.] (Editor) 1976. *Ecological and Resilience Indicators for Management (Managing the Unknown: Methodologies for Environmental Impact Assessment)*. Progress Report, First Workshop 6-10 October 1975. Institute of Resource Ecology, University of British Columbia: Vancouver. 85 pp.
- House, P. W., Swinburn, C. D. and McLeod, J. 1977. *Large-scale Models for Policy Evaluation*. Wiley: New York.
- Huysmans, T. H. 1971. *The Implementation of Operations Research*. Wiley: New York. 246 pp.
- Institution of Water Engineers. 1972. *Symposium on Advanced Techniques in River Basin Management*. Institution of Water Engineers: London. 213 pp.
- Jeffers, J. N. R. (Editor) 1972. *Mathematical Models in Ecology. Twelfth Symposium of the British Ecological Society*. Blackwell: Oxford. 398 pp.
- Kassas, M. 1972. A brief history of land use in Mareotis Region, Egypt. *Minerva Biologica* 1, 167-174.

- Linsley, R. K. 1976. Rainfall-runoff models. In: A. K. Biswas (Editor) *Systems Approach to Water Management*, McGraw-Hill: New York, pp. 16-53.
- Loucks, O. L. 1974. Systems methods in environmental court actions. In: B. C. Patten (Editor) *Systems Analysis and Simulation in Ecology*. Academic Press: New York, 2, 419-473.
- Luce, R. D. and Raiffa, H. 1957. *Games and Decisions*. Wiley: New York, 509 pp.
- Mapp, H. P., Eidman, V. R., Stone, J. F. and Davidson, J. M. 1975. Simulating soil water and atmospheric stress - crop yield relationships for economic analysis. *Oklahoma State University Agricultural Experiment Station Technical Bulletin T-140*, 64 pp.
- Mar, B. W. 1975. Problems encountered in multidisciplinary resource and environmental simulation models development. *Journal of Environmental Management* 2, 83-100.
- McQuigg, J. D. 1975. *Economic Impacts of Weather Variability*. Atmospheric Science Department, University of Missouri: Columbia, 256 pp.
- Meadows, D. H., Meadows, D. L., Randers, J. and Behrens, W. W. 1972. *The Limits to Growth*. Signet Books: Washington, 205 pp.
- Mercado, A. and Evron, M. 1975. *Semi-quantitative Methods for Estimating Pollutant Flux in the Unsaturated Zone*. TAHAL:01/75/57 Water Planning for Israel: Tel Aviv.
- Mesarovic, M. and Pestel, E. 1975. *Mankind at the Turning Point*. Dutton, Readers Digest Press: New York, 210 pp.
- Miller, D. R., Butler, G. and Bramall, L. 1976. Validation of ecological systems models. *Journal of Environmental Management* 4, 382-402.
- Miller, P. C., Collier, B. D. and Bunnell, F. L. 1975. Development of ecosystem modeling in the Tundra Biome. In: B. C. Patten (Editor) *Systems Analysis and Simulation in Ecology*. Academic Press: New York, 3, 95-115.
- Mitchell, R., Mayer, R. A. and Downhower, J. 1976. An evaluation of three biome programs. *Science* 192, 859-865.
- Moiseev, N. N. and Svirezhev, Yu. M. 1975. Metody sistemnogo analiza v probleme 'Chelovek-Biosfera'. In: V. A. Kovda, T. G. Gilmanov and N. D. Dunayeva (Editors) *Imitatsionnoe Modelirovanie i Ekologia*. Izdat. 'Nauka': Moscow, pp. 10-17. (See also SCOPE 1975b below)
- Odum, H. T. 1974. An energy circuit language for ecological and social systems: Its physical basis. In: B. C. Patten (Editor) *Systems Analysis and Simulation in Ecology*. Academic Press: New York, 2, 139-211.
- Organization for Economic Cooperation and Development, 1975. *The Polluter Pays Principle. Definition, Analysis, Implementation*. OECD: Paris, 117 pp.
- Pill, J. 1971. The Delphi Method: Substance, context, a critique, and an annotated bibliography. *Socio-Economic and Planning Science* 5, 57-71.
- Rennie, G. C. and Shapiro, M. A. 1976. The Westernport Bay (Victoria, Australia) land activities model. *Proceedings 7th Annual Pittsburg Conference on Modelling and Simulation*. Pt. 2, pp. 911-915.
- Robertson, G. W. 1968. A biometeorological time scale for a cereal crop involving day and night temperatures and photo-period. *International Journal of Biometeorology* 12, 191-223.
- Schwarz, J. 1974. Strategy and management techniques for the integration of ground water resources in regional planning. In: *Water in Israel, Reprints - 1974*. Water Commission, Ministry of Agriculture: Tel Aviv.
- SCOPE (Scientific Committee on Problems of the Environment) 1974a. *Environment and Development* (D. M. Dworkin, Editor). *SCOPE Miscellaneous Publications*, John Wiley & Sons: London, 412 pp.
- SCOPE (Scientific Committee on Problems of the Environment) 1974b. *Environmental Sciences in Developing Countries* (D. M. Dworkin, Editor) *SCOPE Report 4*. John Wiley & Sons: London, 70 pp.
- SCOPE (Scientific Committee on Problems of the Environment) 1975a. *Environmental Impact Assessment: Principles and Procedures*. (R. E. Munn, Editor). *SCOPE Report 5*, 160 pp.

- SCOPE (Scientific Committee on Problems of the Environment) 1975b. *Imitatsionnoe Modelirovanie i Ekologia. Materialy Podgotovitel'nogo Seminara SKOPE po Proektu No. 5 'Imitatsionnoe Modelirovanie'*, (V. A. Kovda, T. G. Gilmanov and N. D. Dunayeva, Editors). Izdat. 'Nauka': Moscow. 75 pp. Also in English: *Simulation Modelling and Ecology. Materials of the SCOPE Working Group on Project No. 5 'Simulation Modelling'*. (T. G. Gilmanov, N. N. Moiseev and V. A. Kovda, Editors). (In press)
- SCOPE (Scientific Committee on Problems of the Environment). 1977. *Environmental Issues* (M. W. Holdgate and G. F. White, Editors) *SCOPE Report 10*. John Wiley & Sons: London.
- Shamash, Y. 1975. Linear system reduction using Pade approximation to allow retention of dominant modes. *International Journal of Control* 21, 257-272.
- Shapiro, M. A. 1975. Section 5 - Summarized reports on the use of models. In: *Westernport Bay Environmental Study. Report for the Period 1973 to 1974*. Ministry for Conservation, Victoria: Melbourne. pp. 532-581.
- Sharpe, R., Brotchie, J. F., Ahern, P. A. and Dickey, J. W. 1974. Evaluation of alternative growth patterns in urban systems. *Computation and Operations Research* 1, 345-362.
- Shenfeld, L. and Boyer, A. E. 1974. The utilization of air pollution models in air management. *Proceedings of the Fifth Meeting of Experts on Air Pollution Modelling. Report No. 35, North Atlantic Treaty Organization, Committee on the Challenges of Modern Society*. 17 pp.
- Shimazu, Y. (Editor) 1976. *Simulation Modelling in Environmental Problems. Activities in Japan*. SMLES Research Group, Nagoya University: Nagoya. [160 pp]
- Shore, B. 1973. *Operations Management*. McGraw-Hill: New York. 544 pp.
- Thompson, L. M. 1975. Weather variability, climatic change and grain production. *Science* 188, 535-541.
- Tomovic, R. and Vukobratovic, M. 1972. *General Sensitivity Theory*. North-Holland Publishing Company: New York. 258 pp.
- Tronson, K., Wilcox, D. and Bennett, D. 1974. *The Pastoralist Game. An Educational Aid to teach the Fundamental Relationships between Grazing Animals and Range Condition*. CSIRO Division of Land Resources Management and Western Australian Department of Agriculture: Perth. 16 pp.
- United States Environmental Protection Agency. 1974. *A Guide to Models in Governmental Planning and Operations*. EPA Office of Research and Development: Washington, D. C. 415 pp.
- United States Environmental Protection Agency. 1976. EPA and the Nile River. *EPA Journal* 2(3): 4-6.
- Walters, C. J. 1975. Foreclosure of options in sequential resource development decisions. *International Institute for Applied Systems Analysis Research Report RR-75-12*. IIASA: Laxenburg, Austria. 31 pp.
- Whitehead, P. G. and Young, P. C. 1975a. Water quality in river system - modelling and operational control. *Centre for Resource and Environmental Studies, Australian National University, Technical Report AS/R4*. 26 pp.
- Whitehead, P. G. and Young, P. C. 1975b. Water quality in river systems - Monte Carlo analysis and planning. *Centre for Resource and Environmental Studies, Australian National University, Technical Report AS/R5*. 16 pp.
- Whitehead, P. G. and Young, P. C. 1977. A systems model of stream flow and water quality in the Bedford-Ouse River - Part I: Streamflow modelling. *Centre for Resource and Environmental Studies, Australian National University, Technical Report AS/R10* (1976) 50 pp. [Also in *Journal of Hydrology* (in press)].
- Wielgolaski, F. E., Radford, J. and Valentine, W. G. 1975. Study on generality of a desert simulation model by use of tundra data. *United States/International Biological Program Desert Biome Research Memorandum 74-54*: 187-216.
- Young, P. C. 1977. The modeling of badly defined dynamic systems. *Mathematical Statistician* (in press).
- Young, P. C. and Beck, M. B. 1974. The modeling and control of water quality in a river system. *Automatica* 10, 455-467.