

A Refereed Papers

#1	Benyon, P R "Applicability of ODE Models" Technical comment on Raczynski's paper "When System Dynamics ODE Models Fail" 1996 Simulation Vol. 67 No. 5 pp 343-349.
#2	Benyon, P R 'Derivation of Dynamic Estimation Equations by means of the Dirac Delta Function' Maths. & Computers in Simulation Vol. 33 1992 pp. 507-512.
#3	Benyon, P R 'Monte-Carlo and other Methods for Non-linear Non-Gaussian Estimation' Math. Comput. Simulation Vol.32 (1&2) 1990 pp. 215-220.
#4	Benyon, P R 'Presenting Models in Plain English' Maths. & Computers in Simulation. IMACS Vol. 30 1988 pp.17-25.
#5	Benyon, P R 'Exploiting Vector Computers by Replication' The Computer Journal Vol. 28 No. 2 1985 pp. 138-141.
#6	Benyon, P R 'Exploiting Vector Computers for Simulation' Maths. and Computers in Simulation Vol. 27 (1985) pp. 121-127.
#7	Benyon, P R 'The Inversion of Dynamic Systems' Maths. and Computers in Simulation XXI (1979) pp. 335-339.
#8	Freeman, T G and Benyon P R (eds) 'Pastoral and Social Problems in a Semi-arid Environment - a Simulation Model'. Published by UNESCO and CSIRO 1983. [§A1]
#9	Benyon, P R 'Overview'. Chapter 4 in reference (8) above.
#10	Freeman, T G, Benyon P R and Hamilton, C P 'Economic Management Sub-model'. Chapter 7 in reference (8) above.
#11	Freeman T G and Benyon P R 'Simplified Pastoral Model'. Chapter 9 in reference (8) above.
#12	Benyon, P R, Tronson, K C and Flood, J 'Labour Sub-model'. Chapter 10 in reference (8) above.
#13	Benyon, P R and Tronson K C 'Transport Sub-model'. Chapter 11 in reference (8) above.
#14	Benyon, P R 'Demographic Sub-model'. Chapter 17 in reference (8) above.
#15	Benyon, P R, Tronson, K C and Williams, O B, 'Social Sub-model'. Chapter 18 in reference (8) above.
16	Benyon, P R 'The Inversion of Dynamic Systems'. Mathematics and Computers in Simulation, Vol XXI, December 1979, pp 335-339
#17	Cuff, W R and Benyon, P R. Book Review of 'An Introduction to Systems Analysis with Ecological Applications' by J N R Jeffers. Australian Journal of Ecology. Vol. 4, December 1979, pp 441-442.
18	Benyon, P R Contribution to parts of Chapters 7 and 8 in Frankiel, F N and Goodall, D W (eds) 'Simulation Modelling of Environmental Problems' SCOPE Report 9, Wiley, 1978.
#19	Benyon, P R 'The Simplification of Models' SIMULATION, Vol 30, April 1978, pp vii-x.
20	Benyon P R 'Function Minimization Using a Simplex Procedure'. Remark AS R15, Applied Statistics, Vol 25, 1976, p 97.
#21	Barger I A, Benyon, P R and Southcott N H 'Simulation of Larval Populations of a Parasite Nematode of Sheep'. SIMULATION, Vol. 21, January 1974, pp 81-84 (centre pages).
#22	Benyon, P R 'Computer Modelling and Interdisciplinary Teams'. Search, Vol 3, July 1972, pp 250-256. [§A2]
#23	Beltrame, G E, Benyon, P R, Biggs, A G and Possingham, M L 'System Simulation: the Development of Computer Models for the Evaluation of Weapon System Performance'. Electrical Engineering Transactions of the Institution of Engineers, Australia, April 1972, pp 49-54.
24	Benyon P R 'R70-25 Construction of Multistep Integration Formulas for Simulation Purposes' IEEE Transactions on Computers, Vol. C-9 Iss. 8 Aug. 1970 pp 763-4.
#25	Benyon, P R 'A Review of Numerical Methods for Digital Simulation', SIMULATION, Vol. 11, No. 5 November 1968, pp 219-238. [§A3]
26	Benyon P R 'Comments on Giese's Numerical Method', SIMULATION, Vol. 8, May 1967, pp 270-271.
27	Benyon, P R 'Comments on Fowler's Numerical Method', SIMULATION, Vol. 6, June 1966, pp v-vi.
28	Benyon, P R 'Fortran as a Simulation Language', SIMULATION, Vol. 6. January 1966. pp 20.

#29	Benyon, P R and Henry W J 'SIMTRAN in Australia', SIMULATION, Vol. 5, Sept. 1965, pp 158-159.
#30	Lawrence, T F C, Hayman, E G and Benyon P R 'Use of a Mathematical Model in the Evaluation of Guided Missile Performance'. Journal of Institution of Engineers, Australia, September 1961, pp 299-312.
	B <u>Non-refereed Papers and Internal Reports</u>
1	Benyon, P R 'Approaches to Non-linear Non-Gaussian Dynamic Estimation' CRES Working Paper 1989.
#2	Benyon, P R 'Presenting Models in Plain English' Paper to Simulation Society of Australia SSA-87 Conference at RMIT. May 11-13 1987 Proceedings pp 183-193.
#3	Benyon, P R 'Putting Figures into COMTEXT' CSIRO Tech Report No.9 CSIRO News No. 169 Feb. 1983 pp. 15- 21.
#4	Benyon, P R 'Simulation and biotechnology - A General Discussion'. DCR Tech. Report No. 5, May 1982.
#5	Benyon, P R 'Comments on "Propositions Regarding the Next Generation of Simulation Languages" in Newsletter No. 6 IMACS Technical Committee 3 (Simulation software) Newsletter No. 10, Sept. 1981.
#6	Benyon, P R 'New Themes in Simulation', CSIRONET News No. 159, June 1981, pp 1-11.
#7	Benyon, P R. 'A Modelling Manifesto' CSIRO Internal Minute 31 Jan. 1980. 38 pp
#8	Benyon P R 'Dynamic Displays and the Fundamental Properties of Continuous Models'. Symposium on Developments in Simulation Theory. Sydney. November 1979.
#9	Benyon, P R 'Standardized Expression of Rate-State Relations' Paper to Sorrento Workshop on International Standardization of Simulation Languages' Sept. 1979. [§B1].
#10	Benyon, P R 'Preliminary Review of Numerical Methods for Stochastic Dynamic Models' CSIRO Applied Maths. Meeting, Sydney. 19 March 1979.
#11	Benyon, P R 'Simulation and Systems Analysis Group'. DCR Newsletter No. 141, June 1978, pp 11-18
12	Benyon, P R 'Dynamic Displays and the Fundamental Properties of Continuous Models'. Invited paper, Proc Symposium on Developments in Simulation Theory, Statistical Society of Australia and Australian Society of Operations Research, Sydney, November 1977, pp 1-15.
#13	Benyon, P R 'The simplification of models'. Notes prepared for Crop Modelling Workshop, Armidale, August 1977
14	Benyon, P R 'Development of a Socio-technical Model of a Region in which Grazing is a Major Industry'. Papers of the First Australia-New Zealand Regional Science Conference, Brisbane, 1976, p 76.
#15	Benyon, P R 'Improving and Standardizing Continuous Simulation Languages', Proc SIMSIG (now Simulation Society of Australia) 1976 Simulation Conference, Melbourne, May 1976, pp 130-140.
16	Benyon, P R 'Progress Report on Development of a Socio-technical Model of a Region in which Grazing is a Major Industry'. Paper at SCOPE (Scientific Committee on Problems of the Environment) International Workshop, Indianapolis, March 1976. [§B2]
#17	Benyon, P R 'RSSL/ACSL macro facilities'. DCR Simulation Paper No. 5, July 1975.
18	Benyon, P R 'RSSL run-time commands'. DCR Simulation Paper No. 4, April 1975.
#19	Benyon, P R 'Modelling and Simulation: Progress, Prospects and Problems'. Paper at ANZAAS Conference, Canberra, January 1975.
#20	Benyon, P R 'RSSL statements, functions and operators'. DCR Simulation Paper No. 3, November 1974.
21	Benyon, P R 'General features of RSSL'. DCR Simulation Paper No. 2, October 1974.
22	Benyon, P R 'Converting DYNAMO to RSSL'. DCR Simulation Paper No. 1, July 1974.
23	Benyon, P R 'Further Suggestions for Revised CSSL'. Submission to CSSL Technical Committee of SCS, November 1974.
24	Benyon, P R 'Character Sets, Comments, Names and Related Matters'. Submission to CSSL Technical Committee of SCS, July 1974.
25	Benyon, P R 'More General Array-handling Capabilities for CSSL'. Submission to CSSL Technical Committee of SCS, June 1974.

26	Benyon, P R 'General Structure of CSSL Programs'. Submission to CSSL Technical Committee of SCS, June 1974.
27	Benyon, P R 'Use of Syntactic Diagrams'. Submission to CSSL (Continuous System Simulation Language) Technical Committee of SCS (Society for Computer Simulation), June 1974.
#28	Benyon, P R 'Recent Ideas on the Solution of Large Systems of Equations'. Proc 6th Australian Computer Conference, Sydney, May 1974, pp 684-696.
#29	Benyon, P R 'Report on an overseas trip to collect and exchange ideas on simulation techniques and applications'. DCR report, December 1973.
#30	Benyon, P R 'Introduction to the Modelling of Ecosystems'. Paper at ANZAAS Conference, Sydney, August 1972.
#31	Barger I A, Benyon, P R and Southcott, I H 'Simulation of Pasture Larval Populations of Haemonchus Contortus'. Proc Ninth Biennial Conference of the Australian Society of Animal Production, Canberra, February 1972, pp 38-42.
#32	Benyon, P R 'Digital Simulation Techniques'. Paper to meeting of TTCP Panel D9, October 1967.
#33	Benyon, P R 'Report on a Visit to the USA in June 1966, to Attend IBM Symposium on Continuous System Simulation'.
#34	Benyon, P R 'Report on a visit to the USA in March/April 1963, to Discuss Present and Future Simulation Techniques'.
#35	Benyon, P R 'Techniques for the Digital Simulation of Guided Missiles'. Proc of Australian Computer Conference, Melbourne, February 1963, pp C10-1 to C10-14.
#36	Benyon, P R 'Digital simulation'. WRE Tech Memo SAD138, December 1962.
#37	Benyon, P R 'Techniques for the Digital Simulation of Guided Missiles'. WRE Tech Memo SAD137, November 1962.
#38	Benyon, P R 'The Australian Guided Weapons Analogue Computer (AGWAC)', Proc 3rd AICA (International Analogue Computing Association) Conference, Yugoslavia, September 1961, pp 266-275.
#39	Benyon, P R 'Computing Equipment for the Simulation of Surface-to-air Guided Missiles'. WRE Report SAD31, April 1961.
#40	Benyon, P R 'The Computing Problem in a Complex Weapon Simulation'. Paper to Institute of Defence Science, December 1960.
#41	Benyon, P R 'The Design of a Rate Servo for use in an Analogue Computer'. Paper at ANCCAC Conference, Sydney, May 1960.
#42	Benyon, P R 'Digital Simulation'. Paper at ANCCAC Conference, Sydney, May 1960.
#43	Benyon, P R 'ABACUS - A General Purpose Electronic Analogue Computer'. WRE Tech Note SAD49, October 1959.
#44	Benyon, P R 'The Design of a Drift-corrected Variable Mark-space Ratio Multiplier'. WRE Report SAD18, June 1959
#45	Benyon, P R 'A new Relay Drift Corrector for Use in Electronic Analogue Computers'. WRE Tech. Note SAD34, September 1958. [§B3]
#46	Benyon, P R 'Recent Trends in Analogue Computing' WRE Tech. Note SAD111 August 1958.
#47	Benyon, P R 'Electronic Multipliers for AGWAC'. WRE Tech Memo SAD93, September 1957.
#48	Benyon, P R 'Some New Components for Analogue Computing', Proc WRE Data Processing and Automatic Computing Conference, June 1957, pp 206-1 to 206-14.
49	Benyon, P R 'A new D C Amplifier for General Use in Analogue Computers' RAE Tech. Note GW 426 August 1956.
#50	Benyon, P R 'The Dynamic Performance of Computing Elements'. RAE Tech Note GW406, March 1956.
#51	Benyon, P R. 'Some Diode Function Generators' WRE Technical Memorandum. 1955.
#52	Benyon, P R 'Apparatus for Automatically Setting up the Interconnections in an Analogue Computer'. U K Patent Application 33, 178/55, November 1955.
#53	Squires, M and Benyon P R, 'The Use of Negative Feedback for Deriving Sharp Limits in Electronic Analogue Computers', RAE Tech Note GW361, April 1955.
54	Benyon, P R 'Nonlinear Variations Obtainable with Potentiometers'. LRWE Tech. Minute TV/5071/49, Sept. 1953

54	Benyon, P R 'Excess Noise in Semiconductors and an Investigation of Noise in Cadmium Sulphide'. Electrical Engineering Honours Thesis, University of Sydney, 1952.
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Notes

§A1	An extended program of effort from 1975 to 1976 with subsequent modelling and reporting beyond 1981
§A2	Quoted extensively in: House, P W and McLeod, J 'Large-Scale Models for Policy Evaluation', New York, Wiley 1977.
§A3	Also quoted extensively in Lapidus L and Seinfeld, J H 'Numerical Solution of Ordinary Differential Equations'. New York, Academic Press, 1972.
§B1	Later included in ACM SIGSIM Simulation Digest 1984
§B2	Reprinted as Appendix I in reference (13) above
§B3	Quoted at length in: Gilbert, C P 'The Design and Use of Electronic Analogue Computers'. London, Chapman & Hall 1964.