

LIST OF PUBLICATIONS

1960-1984

Janos Gertler

Legend

B	Book	h	Hungarian
J	Journal article	r	Russian
C	Book chapter	g	German
P	Plenary conference paper,	s	Spanish
Blank	Conference paper, research report		

- 1-h. Gertler, J.: Digital Computation of Short Circuit Forces in Transformers. Power Systems Research Institute, Budapest, Hungary (1960)
- 2-Jh. Gertler, J.: Static Stability of Complex Power Systems. *Electrotechnika*, Vol. 54, pp. 449-454 and 504-512 (1961)
- 3-h. Gertler, J.: Analysis of Static Stability in Complex Power Systems. Power Systems Research Institute, Budapest, Hungary (1961)
- 4-h. Vamos, T. and Gertler, J.: Approximate Loss Computation Methods for Power Networks. Power Systems Research Institute, Budapest, Hungary (1961)
- 5-Jh. Gertler, J.: Loss Computation Methods for Economical Load Distribution. *Elektrotechnika*, Vol. 55, pp. 484-489 (1962)
- 6-Jr. Vamos, T. and Gertler, J.: Approximate Techniques to Compute the Loss in Power Networks. *Acta Technica* (Budapest), Vol. 39, pp. 451-460 (1962)
- 7-h. Gertler, J.: The Design of Semiconductor Circuits for a Remote Control System. National Automation Conference, Budapest, Hungary, 1962
- 8-h. Uzsoy, M., Gertler, J. and Vamos, T.: A System for Remote Measurement and Control. COMECON Power Systems Conference, Budapest, Hungary, 1962
- 9-h. Vamos, T. and Gertler, J.: Sample Computations for Network Loss Methods. Power Systems Research Institute, Budapest, Hungary, 1962
- 10-h. Gertler, J., Fust, L. and Kaiser, M.: The Experimental Model of a Remote Control System. Power Systems Research Institute, Budapest, Hungary, 1962
- 11-r. Vamos, T. and Gertler, J.: Sample Computations for Network Loss Methods. Power Systems Research Institute, Budapest, Hungary, 1963
- 12-Jr. Vamos, T. and Gertler, J.: Sample Computations for Network Loss Methods. *Acta Technica* (Budapest), Vol. 46, pp. 79-94 (1964)
- 13-Jh.. Gertler, J., Braun, P. and Kardos, G.: Load Flow Calculations by Digital Computer. *Elektrotechnika* , Vol. 57, pp. 290-297 (1964)

- 14-Jh. Gertler, J.: Transistorized Functional Units. *Elektrotechnika*, Vol. 57, pp. 313-320 (1964)
- 15-Jh. Gertler, J.: Digital System Units. *Elektrotechnika*, Vol. 57, pp. 376-379 (1964)
- 16-Jh. Gertler, J., Borovszky, L. and Kaiser, M.: A Data Logger for Power Stations. *Meres es Automatika* (Measurement and Control, Budapest) Vol. 13, pp. 67-69 (1965)
- 17-Jh. Gertler, J.: A Fuse Circuit for Controlled Power Supplies. *Meres es Automatika* (Measurement and Control, Budapest) Vol. 13, pp. 111-113 (1965)
- 18-Jg. Gertler, J., Borovszky, L. and Kaiser, M.: A Data Logger for Power Stations. *Messen, Steuern, Regeln* (Berlin) Vol. 8, pp. 348-350 (1965)
- 19-h. Gertler, J.: A Data Logger for Power Stations. Research Days of the Power Systems Research Institute, Budapest, Hungary, 1965
- 20-h. Gertler, J.: Analog-to-Digital Converter and Read-Only Memory for a Data Logger. Industrial Control Conference, Lake Balaton, 1965
- 21-h. Gertler, J., Borovszky, L. and Kaiser, M.: A Data Logger for Power Stations. Power Systems Research Institute, Budapest, Hungary, 1965
- 22-h. Fust, L. and Gertler, J.: A Remote Control System for Power Substations. Power Systems Research Institute, Budapest, Hungary, 1965
- 23-h. Gertler, J.: An Analog-to-Digital Converter for Data Loggers.. Power Systems Research Institute, Budapest, Hungary, 1965
- 24-h. Gertler, J.: Read-Only Memory for Data Loggers. Power Systems Research Institute, Budapest, Hungary, 1965
- 25-Jh. Analog-to-Digital Converter and Read-Only Memory for Data Loggers. *Meres es Automatika*, Vol. 14, pp. 106-107 (1966)
- 26-h. Gertler, J.: The Foundations of a Process Control Language. National Automation Conference, Budapest, Hungary, 1966
- 27-h. Gertler, J.: Discrete Systems Design. Lecture Notes, Budapest Technical University, 1966
- 28-h. Gertler, J.: The Foundations of a Process Control Language. Power Systems Research Institute, Budapest, Hungary, 1966
- 29-h. Gertler, J.: Programming for Process Control Computers. Research Days of the Budapest Technical University, 1967
- 30-h. Gertler, J.: Programming and Organization of DDC Systems. Power Systems Research Institute, Budapest, Hungary, 1967
- 31-h. Almasy, G., Pallai, I. and Gertler, J.: Control of a Chemical Plant by Computer. Automation Research Institute, Budapest, Hungary, 1967

- 32-J. Gertler, J.: Position vs. Velocity Algorithms in DDC. *Instrument Practice*, Vol. 22, pp. 1014-1015 (1968)
- 33-J. Gertler, J.: Programming for Direct Digital Process Control Systems. *Acta Technica* (Budapest), Vol. 61, pp. 55-59 (1968)
- 34-Jh. Gertler, J.: Computer Process Control in North-America. *Meres es Automatika*, Vol. 17, pp. 198-200 (1968)
- 35-J. Gertler, J.: Digital Filtering - Digital Simulation. *Instrument Practice*, Vol. 23, pp. 709-713 (1969)
- 36-h. Gertler, J. and Keresztely, S.: Computer Control in the Paper Industry. Automation Research Institute, Budapest, Hungary, 1969
- 37-J. Gertler, J.: High Level Programming for Process Control. *The Computer Journal*, Vol. 13, pp. 70-75 (1970)
- 38-J. Almasy, G., Pallai, I. and Gertler, J.: An Adaptive Model for the Dynamic Optimal Control of a Chemical Plant. *British Chemical Engineering*, Vol. 15, pp. 213-216 (1970)
- 39-J. Gertler, J.: Direct Computer Positioning. *Instrument Practice*, Vol. 24, pp. 246-248 (1970)
- 40-J. Hollo, E. and Gertler, J.: The DC Motor as a DDC Actuator. *Instrument Practice*, Vol. 24, pp. 709-713 (1970)
- 41-Jh. Gertler, J.: Time Domain Computation of Correlation Sequences for Discrete Systems. *Meres es Automatika*, Vol. 18, pp. 169-171 (1970)
- 42-Jh. Gertler, J.: Using the State Space Approach in Computer Simulation and Control. *Meres es Automatika*, Vol. 18, pp. 385-389 (1970)
- 43-h. Gertler, J. and Hencsey, G.: State Space Simulation of Linear Systems. National Automation Conference, Budapest, Hungary, 1970
- 44-h. Gertler, J. and Banyasz, Cs.: Implementation Issues of the Maximum Likelihood Method. National Automation Conference, Budapest, Hungary, 1970
- 45-h. Gertler, J., Hollo, E. and Roska, M.: Instrumentation Aspects of Computer Control in Power Plants. Power Systems Research Institute, Budapest, Hungary, 1970
- 46-h. Gertler, J. and Hadik, Z.: Algorithms for the Computer Control of Thermal Power Stations. Power Systems Research Institute, Budapest, Hungary, 1970
47. Gertler, J.: Computer Assessment Control for Power Generating Units. IFAC/IFIP Conference on Digital Computer Applications to Process Control, Helsinki, Finland, 1971
48. Gertler, J. and Almasy, G.: Balance Calculations through Dynamic System Modelling. IFAC Symposium on Digital Simulation of Continuous Processes, Gyor, Hungary, 1971
- 49-Jh. Gertler, J. and Demjen, Cs.: Simulation Studies on the Feed-Forward Control of a Power Plant Process. *Meres es Automatica*, Vol. 19, pp. 209-215 (1971)

- 50-J. Gertler, J.: DISCOP – An IFAC Symposium on Digital Simulation of Continuous Processes. Conference Report. *Automatica*, Vol. 8, pp. 655-658 (1972)
- 51-J. Gertler, J. and Banyasz, Cs.: On Two Methods of Discrete System Identification. *Problems of Control and Information Theory* (Budapest-Moscow), Vol. 1, pp. 287-296 (1972)
52. Almasz, G., Pallai, I. and Gertler, J.: Plant Modelling for Process Control. CHIISA Congress, Prague, Czechoslovakia, 1972
- 53-Jh. Schmideg, I. and Gertler, J.: Computation of Technical and Economic Parameters in a Power Plant. *Meres es Automatika*, Vol. 20, pp. 274-279 (1972)
- 54-J. Gertler, J. and Almasz, G.: Balance Calculations through Dynamic System Modelling. *Automatica*, Vol. 9, pp. 79-85 (1973)
- 55-Js. Almasz, G., Pallai, I. and Gertler, J.: Plant Modelling for Dynamic Optimal Control. *BCE Revista lye de Quimica Industrial* (Madrid), Vol. 6, pp. 66-73 (1973)
- 56-Jh. Gertler, J.: The Kalman Filter. *Meres es Automatica*, Vol. 21, pp. 122-125 (1973)
- 57-J. Gertler, J. and Banyasz, Cs.: A Recursive (Online) Maximum Likelihood Identification Method. *IEEE Transactions on Automatic Control*, Vol. AC-19, pp. 816-820 (1974)
- 58-P. Gertler, J. and Sedlak, J.: Software for Process Control. IFAC/IFIP Conference on Digital Computer Applications to Process Control, Zurich, Switzerland, 1974
- 59-Jh. Gertler, J. and Banyasz, Cs.: A New Online Identification Method. *Meres es Automatika*, Vol. 22, pp. 177-181 (1974)
- 60-h. Gertler, J.: Modelling for Process Control. Computing and Automation Research Institute, Budapest, Hungary, 1974
- 61-h. Gertler, J.: Filtering for Process Control. Computing and Automation Research Institute, Budapest, Hungary, 1974
- 62-h. Gertler, J.: Identification for Process Control. Computing and Automation Research Institute, Budapest, Hungary, 1974
- 63-h. Gertler, J.: Control Algorithms for Process Control. Computing and Automation Research Institute, Budapest, Hungary, 1974
- 64-J. Gertler, J. and Sedlak, J.: Software for Process Control. *Automatica*, Vol. 11, pp. 613-625 (1975)
- 65-P. Gertler, J.: Standardization Efforts in Process Control Software. Finnish Automation Days, Helsinki, Finland, 1975
66. Gertler, J.: The Practical Apparatus of Process Control. IFAC World Congress, Boston, MA, 1975
67. Gertler, J.: Dynamic Balancing of Measurements – Another Approach to Statistical Filtering. IFAC World Congress, Helsinki, Finland, 1978

68. Gertler, J., Mann, A.J. and Edwards, R.V.: An APL Shared Variable Processor in a Distributed Real-Time Environment. IFAC/IFIP Workshop on Real-Time Programming, Mariehamn, Finland, 1978
- 69-J. Gertler, J.: A Constrained Minimum Variance Input-Output Estimator for Linear Dynamic Systems. *Automatica*, Vol. 15, pp. 353-358 (1979)
70. Mann, A.J., Edwards, R.V. and Gertler, J.: Implementation of an APL Driven Laboratory Interface. APL'79 Conference, Rochester, NY, 1979
- 71-h. Gertler, J.: A Statistical Filtering Technique for Process Control. Computing and Automation Research Institute, Budapest, Hungary, 1979
- 72-J. Gertler, J., Varga, Gy. and Sipos, F.: Computational Experience with the Constrained Minimum Variance Input-Output Estimator. *Automatica*, Vol. 16, pp. 423-427 (1980)
- 73-Jh. Gertler, J.: Data Reconciliation as a Statistical Filter. *Meres es Automatika*, Vol. 28, pp. 205-210 (1980)
- 74-Jh. Gertler, J. and Sipos, F.: Simulation Studies with the Data Reconciliation Filter. *Meres es Automatika*, Vol. 28, pp. 330-336 (1980)
- 75-Jh. Gertler, J.: Computing Services at the Hungarian Academy. *Magyar Tudomány* (Hungarian Science), Vol. 86, pp. 606-613 (1980)
- 76-J. Gertler, J. and Sipos, F.: Performance Index Sensitivity of the Constrained Minimum Variance Filter. *Automatica*, Vol. 17, pp. 401-406 (1981)
77. Gertler, J.: Estimating the Noise Covariance Matrix for Input-Output Filters. IFAC World Congress, Kyoto, Japan, 1981
- 78-Jh. Gertler, J.: The Foundations of Realization Theory (R.E. Kalman's seminar in Budapest). *Meres es Automatika*, Vol. 29 (1981)
79. Wu, C. and Gertler, J.: Corrective Methods for Identification in the Closed Inferential Control Loop. 21st Allerton Conference, Monticello, IL, 1983
80. Gertler, J., Brosilow, C.B. and Wu, C.: Approaches to Closed Loop Identification for Inferential Control. IFAC World Congress, Budapest, Hungary, 1984
81. Gertler, J. and Ferreira, C.: A Non-Linear (Iterative) Least Square Algorithm for Parameter Identification. 22nd Allerton Conference, Monticello, IL, 1984
- 82-B. Gertler, J. and Keviczky, L. (General Editors): Proceedings of the 9th World Congress of the International Federation of Automatic Control, Budapest, Hungary, 1984. Pergamon Press, Oxford, UK, 1985 (6 volumes, 3500 pages).