6
Bibliografia

Abonyi, J., S. Nemeth, C. Vincze, P. Arva (2003) "Process analysis and product quality estimation by Self-Organizing Maps with application to polyethylene production", Computers in Industry, 52, p. 221-234.

Bailey, S.J. (1984) "From desktop to plant floor, a CRT is the control operators window on the process", Control Engineering, 31 (6), p. 86-90.

Bakshi, B.R., G. Stephanopoulos (1993) "Wave-net: a multiresolution, hierarchical neural network with localized learning", A.I.Ch.E. Journal, 39, 1.

Baughman, D.R., Y.A. Liu (1995) Neural Networks in Bioprocessing and Chemical Engineering, Academic Press, San Diego.

Bezerra, E.M., M.S. Bento, J.A.F.F. Rocco, K. Iha, V.L. Lourenço, L.C. Pardini (2008) "Artificial neural network (ANN) prediction of kinetic parameters of (CRFC) composites", Computational Materials Science, doi: 10.1016/j.commatsci.2008.05.002.

Bhat, N.V., T.J. McAvoy (1990) "Use of neural nets for dynamic modeling and control of chemical process systems", Computers and Chemical Engineering, 14, p. 573-583.

Bragança, A.L.D., E.D. Piraguacy, A.T.M. Oliveira (2004) "Process for the controlled production of polyethylene and its copolymers", European Patent EP1259554. Disponível em: http://www.freepatentsonline.com/EP1259554B1.html.

Chan, W.M., C.A.O. Nascimento (1994) "Use of neural network for modeling of olefin polymerization in high pressure tubular reactors", Journal of Applied Polymer Science, 53, p. 1277-1289.

Corrêa, L.G.C. (2005) "Inferência da Qualidade de Produtos de Destilação Utilizando Redes Neurais Artificiais e Filtro de Kalman Estendido", Dissertação de mestrado, DEE/PUC-Rio, Rio de Janeiro.

De Souza Jr., M.B. (1993) "Redes Neuronais Multicamadas Aplicadas à Modelagem e Controle de Processos Químicos", Tese de doutorado, COPPE/UFRJ, Rio de Janeiro.

Fu, R.Q., T.W. Xu, Z.X. Pan (2005) "Modelling of the adsorption of bovine serum albumin on porous polyethylene membrane by back-propagation artificial neural network", Journal of Membrane Science, 251, p. 137-144.

Gurney, K. (1997) An introduction to neural networks, UCL Press, London.

Haykin, S. (1999) Neural Networks: A Comprehensive Foundation, 2nd ed., Prentice Hall, New Jersey.

Hebb, D.O. (1949) The organization of behaviour, John Wiley, New York.

Hecht-Nielsen, R. (1990) Neurocomputing, Addison-Wesley Publishing Company, Reading, MA.

Karatas, Ç., A. Sözen, E. Arcaklioglu, S. Ergüney (2007) "Modelling of yield length in the mould of commercial plastics using artificial neural networks", Materials and Design, 28, p. 278-286.

Kiparissides, C. (1996) "Polymerization Reactor Modeling: A Review of Recent Developments and Future Directions", Chemical Engineering Science, 51 (10), p. 1637-1659.

Lennox, B., P. Rutherford, G.A. Montague, C. Haughin (1998) "Case study investigating the application of neural networks for process modeling and condition monitoring", Computers and Chemical Engineering, 22 (11), p. 1573-1579.

Lennox, B., G.A. Montague, A.M. Frith, C. Gent, V. Bevan (2001) "Industrial application of neural networks – an investigation", Journal of Process Control, 11, p. 497-507.

Lin, W., Y. Qian, X. Li (2000) "Nonlinear dynamic principal component analysis for on-line process monitoring and diagnosis", Computers and Chemical Engineering, 24, p. 423-429.

Liu, J. (2007) "On-line soft sensor for polyethylene process with multiple production grades", Control Engineering Practice, 15, p. 769-778.

MacGregor, J.F., T. Kourti (1995) "Statistical Process Control of Multivariate Processes", Control Engineering Practice, 3 (3), p. 403-414.

Matlab (2008) "Products and Services" [página na Internet]. The MathWorks, Inc. [Acesso em 24 jul. 2008]. Disponível em: http://www.mathworks.com/products/matlab/.

McAuley, K.B., J.F. MacGregor, A.E. Hamielec (1990) "A Kinetic Model for Industrial Gas Phase Ethylene Copolimerization", A.I.Ch.E. Journal, 36 (6), p.837.

McAuley, K.B., J.F. MacGregor (1991) "On-Line Inference of Polymer Properties in an Industrial Polyethylene Reactor", A.I.Ch.E. Journal, 37 (6), p. 825-835.

McCulloch, W., W. Pitts (1943) "A logical calculus of the ideas immanent in nervous activity", Bulletin of Mathematical Biophysics, 7, p. 115-133.

Mendes, A.J.B. (2005) "Modelagem híbrido-neuronal da produção de lipase por *Candida rugosa*", Dissertação de mestrado, EQ/UFRJ, Rio de Janeiro.

Montgomery, D.C., G.C. Runger (2003) Estatística Aplicada e Probabilidade para Engenheiros, LTC Livros Técnicos e Científicos Editora S.A., Brasil.

Ogawa, M., M. Ohshima, K., Morinaga, F. Watanabe (1999) "Quality inferential control of an industrial high density polyethylene process", Journal of Process Control, 9, p. 51-59.

Ohshima, M., M. Tanigaki (2000) "Quality control of polymer production processes", Journal of Process Control, 10, p. 135-148.

Pacella, M., Q. Semeraro (2007) "Using recurrent neural networks to detect changes in autocorrelated processes for quality monitoring", Computers and Industrial Engineering, 52, p. 502-520.

Power, Y., P.A. Bahri (2004) "A two-step supervisory fault diagnosis framework", Computers and Chemical Engineering, 28, p. 2131-2140.

Qin, S.J., T.J. McAvoy (1992) "Nonlinear PLS modeling using neural networks", Computers and Chemical Engineering, 16, p. 379-391.

Rallo, R., J. Ferre-Giné, A. Arenas, F. Giralt (2002) "Neural virtual sensor for the inferential prediction of product quality from process variables", Computers and Chemical Engineering, 26, p. 1735-1754.

Sharmin, R., U. Sundararaj, S. Shah, L.V. Griend, Y.J. Sun (2006) "Inferential sensors for estimation of polymer quality parameters: Industrial application of a PLS-based soft sensor for a LDPE plant", Chemical Engineering Science, 61, p. 6372-6384.

Stephanopoulos, G., C. Han (1996) "Intelligent Systems in Process Engineering: A Review", Computers and Chemical Engineering, 20 (6/7), p. 743-791.

Tsai, C-S., C-T. Chang (1995) "Dynamic process diagnosis via integrated neural networks", Computers and Chemical Engineering, 19 (Suppl.), p. S747-S752.

Uraikul, V., C.W. Chan, P. Tontiwachwuthikul (2007) "Artificial intelligence for monitoring and supervisory control of process systems", Engineering Applications of Artificial Intelligence, 20, p. 115-131.

Valdman, B. (1999) Dinâmica e Controle de Processos, Ed. Tórculo, Santiago de Compostela.

Venkatasubramanian, V., R. Rengaswamy, K. Yin, S.N. Kavuri (2003)[a] "A review of process fault detection and diagnosis – Part I: Quantitative model-based methods", Computers and Chemical Engineering, 27, p. 293-311.

Venkatasubramanian, V., R. Rengaswamy, S.N. Kavuri, K. Yin (2003)[b] "A review of process fault detection and diagnosis – Part III: Process history based methods", Computers and Chemical Engineering, 27, p. 327-346.

Watanabe, F., M. Ogawa, M. Ohshima, I. Hashimoto (1993) "Quality control system for an industrial high density polyethylene process", A.I.Ch.E. meeting, St. Louis, No. 149.

Xia, Q., M. Rao (1999) "Knowledge architecture and system design for intelligent operation support systems", Expert Systems with Applications, 17, p. 115-127.

Yu, J-B., L-F. Xi (2007) "A Neural Network Ensemble-based Model for On-line Monitoring and Diagnosis of Out-of-control Signals in Multivariate

Manufacturing Processes", <u>Expert Systems with Applications</u>, doi: 10.1016/j.eswa.2007.10.003.

Zhang, J., E.B. Martin, A.J. Morris, C. Kiparissides (1997) "Inferential Estimation of Polymer Quality Using Stacked Neural Networks", <u>Computers and Chemical Engineering</u>, 21 (Suppl.), p. S1025-S1030.