Bibliography and Publications

[5]Stigler,G."Production and Distribution in the Short-run". Journal of Political Economy (47),1939, pp.305-328.
[6] Browne, J., Dubois, D., Rathmili, K., Setlù, S.P.and Stecke, K.E. "Classification of flexible manufacturing systems". The FMS Magazine (2), no.2,1984.
[7] Sethi, A.K. and Sethi, P.S. "Flexibility in Manufacturing: a Survey". International Journal of Flexible Manufacturing Systems 2, 1990, pp. 289-328.
[8] Palles, N., Yannou and Bocquet, J-C. "Manufacturing Flexibility: a New Evaluation" in Chedmail et.al (op.cit.).
[9] Del Mar, D. Operations and Industrial Management: Designing and Managing for Productivity. McGraw Hill, 1985.
[10]Del Mar (1985), p.72
[11]Erixon, G. Modular Function Deployment - a Method for Product Modularization. The Royal Institute of Technology, Stockholm, 1998.
[12]See for example Carvalho, M.F. , Silva Filho, 0. S. and Femandes, C.A.O. "O Planejamento da Manufatura - Praticas Industriais e Métodos de Otimizacão" in Gestão & Produção, v.5, n. 1, April 1998 pp..34-59).
[13]See Erixon (1998), p.7.
[14] Yang. T. and Peters, B.A. "Flexible Machine Layout Design for Dynamic and Uncertain Production Environments". European Journal of Operations Research 108 (1998), pp.49-64.
[15] Millen, R. A.; Solomon, M.M. and Afentakis, P. "The Impact of a Single Input/Output device on Layout Considerations in Flexible Manufacturing Systems". Int.J.Prod.Res. 30, no. 1 (1992), pp.89-93.
[16] Meller, R.D. and Gau, K-Y. "The Facility Layout Problem: Recent and Emerging Trends and Perspectives" in Journal of Manufacturing Systems 15, no. 5 (1996), pp. 351-366.
[17] Chedmail, P., Bocquet, J-C and Dorn:field, D. Integrated Design and Manufacturing in Mechanical Engineering . Kluwer Academic Publishers, 1997.
[18]Walker, J.M. (ed.). Handbook of Manufacturing Engineering, Marcel Dekker Inc., 1996.
[19]Chednmü et al. (199-7), pp.xvi-xvii
[20] Gao, J.X. and Bennett, G.R. "Manufacturing Capability Modeling for Concurrent Product Development" in Chedmail et.al. (op.cit).
[21] This idea was suggested by Prof. Michel Minoux, Université de Paris (France) during a visit to the University of Southampton.
[22] Mahbub, R. Automation and Robotics in Construction._ Unpublished MSc Dissertation. University of Manchester, 1993.
[27] Riemer, R- and Edan Y. "The Evaluation of the Influence of Target Locations on Robots". Working paper, Dept. of Industrial Engineering and Management, Ben-Gurion University of the Negev, 1999.
[28] Billingsley, J. Robots and Automated Manufacture. IEEE Control Engineering Series. Short Run Press Ltd., 1985.
[29] Fuller, 1992 (op. cit.), p. 171.
[30] This sub-section of the report is largely based on inputs from A. Pashkevich (ROBOLAB, Belarus).
[31] A robot simulation package called ROBOMAX with all of the features named below developed by ROBOLAB.
[32] The repeatability of industrial robots tends to be higher than their accuracy, averaging.0.5 mm and 1.0 mm respectively.
[33] Roy, Daniel. Une architecture hierarchisee multi-Agents pour le pilotage reactif d'ateliers de Production. Unpublished Ph.D. thesis, Universite de Metz, 1998.
[34] Davies, W. and Edwards, P. "Agent-based Knowledge Discovery" . Working Paper, Dept. pf Computer Sciences, University of Aberdeen, 1995.
[35] Roy, D. 1998 (op.cit.), p. 18.
[36]Roy, D. and Anciaux, D. "A Hierarchical Multi-agent Approach Applied to the Shop Floor Control". Proceedings of the CARS & FDF Conference, Colombia, Dec. 1997.
[37] Graphical representation based on Roy, D. 1998, op.cit (pp. 34
[38] Roy, D. 1998 (ap.cit.), p. 43.
[40] The introductory section on Production Planning and Scheduling was largely based on contribution and bibliographic references provided by C.N. Potts from the University of Southampton (UK). The sub-section on plant layout was enlarged to include publications from the Universite de Metz.
[41] Drexl, A.and Kinuus, A. . "Lot Sizing and Scheduling --- Survey and Extensions". European Journal of Operational Research 99 (1997), pp. 221-235.
Gelders, L.F.and Van Wassenhove, L.N.. "Production Planning, a Review". European Journal of Operational Research 7 (1981) 101-1 10.
Nam, S.-J. and Logendran, R. "Aggregate Production Planning --- A Survey of Models and Methodologies". European Journal of Operational Research 61, 1992, pp. 255-272.
Zapfel, G. and Missbauer, H. "New Concepts for Production Planning and Control'. European Journal of Operational Research 67 (1993),pp. 297-320.
[42] Chen, B., Potts, C.N. and Woeginger, G. "A Review of Machine Scheduling: Complexity, Algorithms and Approximability" in Du, D.-Z and Pardalos, P.M. (eds.) Handbook of Combinatorial Optimization, Volume 3, Kluwer, 1998, pp. 21-169. See also Lawler, E.L., Lenstra, J.K., Rinnooy Kan, A.H.G. and Shmoys, D.B. "Sequencing and Scheduling: Algorithms and Complexity" in Graves, S.C., Rinnooy Kan A.H.G. and Zipkin, P. (eds.). Handbooks in Operations Research and Management Science: Logistics of Production and inventory , volume 4., North-Holland, 1993, pp. 445-522. See also Morton, T.E. and Pentico, D.W. Heuristic Scheduling Systems. Wiley, 1993. See also Pinedo, M. Scheduling: Theory, Algorithms and System . Prentice-Hall, Englewood Cliffs, N.J., 1995.

[43] See, for instance Yie, Xiaolm. "Manufacturing Cell Formation under Capacity Constraints". Applied Stochastic Models and Data Analysis, vol. 9, 1993, pp. 87-96. Also Harhhalakis, G., Proth, J.M. and Xie, X.L. "Manufacturing Cell Design using Simulated Annealing: au Industrial Application'. Journal of Intelligent Manufacturing 1, 1990, pp. 185-191. Also Souilah A. "Theory and Methodology: Simulated Annealing for Manufacturing Systems Layout Design'. European Journal of Operations Research 82, 1995 (pp. 592-614).
[44] Hassan, M.M.D. "Machine Layout Problem in Modem Manufacturing Facilities". International Journal of Production Research 11 (1994), pp.2559-2584.See also Kusiak, A. and Heragu, S.S. "The facility layout problem". European Journal of Operational Research 29 (1987), pp. 229-251.
[45] Meller, R. D. and Gau K-Y. "The Facility Layout Problem: Recent and Emerging Trends and Perspectives". Journal of Manufacturing Systems 15, no. 5,1996, pp. 351-366.
[46] Graves, R.J., McGinnins, L.F., Medeiros, D., Ward, R.E. and Wilhem, M.R. (eds.). Progress Material Handling Research , Braun-Brumfield, 1995 (p. 17)
[47] Askin, R-D. and Standridge, C.R. Modeling and Analysis of Manufacturing Systems. John Wiley & Sons, 1993.
[48] Cundiff, E.W. and Hilger, M.T. Marketing in the International Environment. Prentice-Hall International Editions, 1988.
[49] Cundiff and Hilger (1988), op.cit., p.350.
[50]Fuller, J. (1 992), op. cit., p. 171
[51] Maintainability is a largely undefined design characteristic that measures the facility of access and repair of a given system, also being linked to system complexity as well as the ease, accuracy, safety and cost associated with the performance of maintenance actions.
[52] Bertztiss, A. Software Methods for Business Reengineering. Springer, 1996.
[53]Bumberg, D.F. "Strategic Examination of Reverse Logistics and Repairs Service Requirements, Needs, Market Size and Opportunities". Journal of Business Logistic , 20, No.2, 1999, pp. 141-159.
[54] Blanchard, B. S. Logistics Engineering and Management Prentice-Hall International Series, 1986.
[55] Common indicators for reliability and maintainability are mean time between failures and mean time to repair, respectively.
[56] Dornier, P-P, Ernst R., Fender, M. and Kouvelis, P. Global Operations and Logistics. Text and Cases. John Wiley & Sons, 1998.
[57] Barros, L. "Integrated Logistics and Development" in Rosenhead, J. and Tripathy, A. Operational Research for Development, New Age International Publishers, 1996
[58]Rushton, A. S. "the Cost of Materials Handling to the Economy". Material Flow 1, 1983.
[59] Rushton, A. and Oxley, J. Handbook of Logistics and Distribution Management. Kogan Page, 1989.
*Final Report - Project INTAS number 93-2183 "Integrated Methodology for the design of FMS with 'Hard' and 'Soft' Lines" Project Co-ordinator: Prof Lilian BARROS. UTT - 1998/ L. L. Baptista/ S. Rohmer /K. Adjallah / E. Chatellet
** Sources from:
***The International Atomic Energy Agency's report – L.L.Baptista © 2003