

2.16 REFERENCES [2-x]

1. Act No. 18/1997 Coll. of 24 January 1997 on Peaceful Utilisation of Nuclear Energy and Ionising Radiation, Czech Republic.
2. AISSA, M., Mathematical and Experimental Methods for the Use of Radiotracers for the Simultaneous Determination of RTD and Breakage Rates in Closed Circuit Comminution Processes. PhD Thesis, North Carolina State University, Raleigh, N.C. (1985).
3. AKERMAN, K., Radiotracer Method in Praxis; (in Slovak) Alfa, Bratislava (1972).
4. AMBWANI, D.S., ADLER, R.J., Scale-up of Residence Time Distribution; AIChE J. 12, 3, 612-613 (1966).
5. ANDERSSSEN, A.S., WHITE, E.T., The Analysis of Residence Time Distribution Measurements Using Laguerre Functions, Can.J.Chem. Eng. 47, 288-295 (1969).
6. ANDERSSSEN, A.S., WHITE, E.T., Parameter Estimation by the Weighted Moments Method; Chem. Eng. Sci. 26, 1203-1221 (1971).
7. ARIS, R., Notes on the diffusion type model for longitudinal mixing in flow. Proc. Roy. Soc. (London) A 245, 268 (1958).
8. BARBOSA-CÁNOVAS, G.V. et al., Preservation of Foods with Pulsed Electric Field, Academic Press, San Diego, (1999).
9. BENDAT, J.S., PERSOL, A.G., Engineering Applications of Correlation and Spectral Analysis; WILEY, J., New York (1980).
10. BENEŠ, J., Statistická dynamika regulačních obvodů; (in Czech) SNTL, Praha (1961).
11. BEVINGTON, P.R., Data Reduction and Error Analysis for the Physical sciences. McGraw-Hill, New York (1969).
12. BISCHOFF, K.B., McCracken, E.A., Tracer Tests in Flow Systems. Int. Chem. Eng. 58, 18 (1966).
13. BLAHA, L., THÝN, J., SPILOWSKI, S., STRZELCZAK, G., Radioisotope Applications in Water Engineering I. Settling of Industrial and Municipal Waste Water in settling Basins; Radioisotopy 19 (2), 191-224 (1978).
14. BLET, V., BERNE, Ph., LEGOUPIL, S., Radioactive techniques as aids for diagnosing chemical reactors. Report of CM on The preparation of a technical document on intercomparison of available process engineering software in tracer technology. IAEA, 22-25 November (1999) Vienna.
15. BLET, V., BERNE, Ph., LEGOUPIL, S., TOLA, F., VITART, X., Recent Developments in Radiotracers Methodology, International Conference CHISA '98, August, Prague 1998.
16. BRONŠTEJN, I.N., SEMENDAJEV, K.A., Handbook of Mathematics; (in Slovak) SVTL, Bratislava (1968).
17. BUFFHAM, B.A., GIBILARO, L.G., A Generalization of the Tanks in Series mixing model; AIChE J. 14,5, 805- 806 (1968).
18. BUFFHAM, B.A., KROHOLLER, H.W., Tracer Kinetics. Some General Properties, the Mean Residence Time and Applications to Phase and Chemical Equilibria, Chem. Eng. Sci. 28, 1081-1089 (1973).
19. BURIANEC, Z., et al., Instruction for Practice in Control Theorie; (in Czech), (Lectures VŠCHT Praha) SNTL, Praha (1968).
20. CARNAHAN, B., LUTHER, H.A., WILKES, J.O., Applied Numerical Methods; WILEY, J., New York (1969).
21. CHARLTON, J.S., Example of a safety assessment of a residence time distribution study through a packed bed. Personal communication.
22. CHMIELEWSKI, A.G., OWCZARCZYK, A., PALIGE, J., DOBROWOLSKI, A., Application of radiotracers for investigation of wastewater and air pollution control installations, IAEA, 2nd Research Co-ordination Meeting, 19-23 July, Krakow, (1999).

23. CHUNG, S.F., WEN, C.Y., Longitudinal Dispersion of Liquid Flowing through Fixed and Fluidized Beds, *AIChE J.* 14, 857 (1978).
24. CUENOD, M., SAGE, A.P., Comparison of some methods used for process identification, 3. Symp. IFAC Praha, June (1967).
25. CURL, R.L., McMILLAN, M.L., Accuracy in Residence Time Measurements, *AIChE J.* 12, No.4, 819-822 (1966).
26. DANCKWERTS, P.V., Continuous Flow Systems: Distribution of Residence Times, *Chem. Eng. Sci.* 2, 1-73 (1953).
27. de ALWIS, A.A., ZHANG, L., FRYER, P.J., Modelling Sterilisation and Quality of the Ohmic Heating Process. In: *Advances in Aseptic Processing Technologies*, R.K. Singh and P.E. Nelson, eds., Elsevier, London, 1992.
28. DITKIN, V.A., PRUDNIKOV, A.P., Integralnyje Preobrazovanija i Operacijonnoje Isčislenije; (in Russian) *Fizmatiz*, Moskva (1961).
29. DOOGE, J.C., Analysis of Linear Systems by Means for Laguerre Functions; *I.J.S.I.A.M. Contr.* 2, 396 (1965).
30. DUDUKOVIC, M.P., Tracer methods in chemical reactors. *Techniques and Applications, Chemical Reactor Design and Technology* (H.I. DeLasa, ed), NATO Series E: Applied Sciences No. 110, Martinus Nijhoff Publishers, Dordrecht, Netherlands 107-189 (1986).
31. DUDUKOVIC, M.P., Radiotracers in chemical engineering; Report of CM on The preparation of a technical document on intercomparison of available process engineering software in tracer technology, IAEA, 22-25 November (1999) Vienna.
32. ENGH, T.A., HANSSON, L., WORNER, H.K., WULFF, K., Measurement of the Residence Time Distribution for Wocra Steel Refiner; *Jernkont. Ann.* 155 (1971).
33. EXAL, D.I., TAUTE, W.J., The Distribution Study in the Batch Milling of Gold Ore Activated in Nuclear Reactor; Atomic Energy Board Report No. PEL-228 (1973).
34. EYKHOFF, P., System Identification; WILEY, J., New York (1974).
35. FAN, L.T., AHN, Y.K., Frequency Response of Tubular Flow Systems. *Chem. Eng. Prog. Symp. Ser.* 59, 46, 91-97 (1963).
36. FAN, L., *Ind. Eng. Chem.* 52, 921 (1960).
37. FODOR, G., Laplace Transforms in Engineering; *Akadámiai Kiadó*, Budapest (1965).
38. FRIEDMAN S.J., MARSHALL W.R., Studies in Rotary Drying. Part 1. Holdup and Dusting; *Chem. Eng. Progress*, 45, 482-493 (1949).
39. FU, B., WEINSTEIN, H., BERNSTEIN, B., SGAFFER, A.B., Residence Time Distribution of Recycle Systems - Integral Equation Formulation; *Ind. Eng. Chem. Process Des. Dev.* 10, 501-508 (1971).
40. GALLYAS, M., HILGER., JUHÁSZ, I., Energy Saving in Operating Closed Circuit Cement Mills on the Basis of RTD; 7th CHISA Congress, Prague, (1981).
41. GARDNER, R.P., ROGERS, R.S., VERGHESE, K., Development Use of Short-lived Radioactive Tracer Method for Applying the Mechanistic Approach to Industrial Continuous Ball Mills; *Europ. Symp. Powder Technol.*, Amsterdam (1980).
42. GARDNER, R.P., ROGERS, R.S., VERGHESE, K., Short-lived Radioactive Tracer Methods for the Dynamic Analysis and Control of Continuous Comminution Process by the Mechanistic Approach; *Int. J. Appl. Radiat. Isot.* 28 10/11, 861-871 (1977).
43. GIBILARO, L.G., The Recycle Flow-mixing Model; *Chem. Eng. Sci.* 26, 299-304 (1971).
44. GIBILARO, L.G., LEES F.P., The Reduction of Complex Transfer Function Models to Simple Models Using the Method of Moments; *Chem. Eng. Sci.* 24, 85-93 (1969).
45. GIBILARO, L.G., On the Residence Time Distribution for Systems with Open Boundaries, *Chem. Eng. Sci.* 33, 487-492 (1978).
46. GOSMAN, A., JECH Č., Nuclear Method in Chemical Research; *Academia, Praha* (1990).

47. GRACZYK, J., THÝN, J., Radiotracer Applications in the Study of Flow Chemical Reactors, XI. Holdup and Dispersion on Packed Columns; (in Czech), Radioisotopy 21, 759-775 (1980).
48. GRAICHEN, K., Use of Process Equation of Mechanical Macroprocesses for Continuous Mixing and Blending; Int. Chem. Eng. Symp. Ser. No. 65. Birmingham, 10-13 March (1981).
49. GUPTA, P., Monte Carlo simulation of NaI detectors efficiencies for radioactive particle tracking in multiphase flows, CREL Annual report, Washington University, 117 (1998)
50. HANSSON, L., KURTÉN, R., THÝN, J., The Application of Laguerre Functions for Approximation and Smoothing of Count Rates Varying with Time; Int. J. Appl. Radiat. Isot. 26, 347-354 (1975).
51. HANSSON, L., THÝN, J., The analysis of the RTD in systems with recirculation by using Laguerre functions; 4th Int. Congr. CHISA 72, Praha (11- 15.9. 1972).
52. HASAL, P., KUDRNA, V., VYHLÍDKOVÁ, J., Smoothing of Stationary Random Signal in Continuous Flow Mixer with Gamma Distribution of Residence Times. Collect. Czech. Chem. Commun. 50, 2545-2557 (1985).
53. HIMMELBLAU, D.M., BISCHOFF K.B., Process Analysis and Simulation Deterministic Systems; Wiley, J., New York (1968).
54. HLAVÁČEK, V., VÁCLAVEK, V., KUBÍČEK M., Balance and Simulation Calculations of Complex Processes of Chemical Technology; (in Czech) Academia, Praha (1979).
55. HNILICA, P., THÝN, J., PECHLÁK, B., Analysis of Hammer Mill Response to Impulse Inlet of Radioactive Tracer, Powder Technology, 45 183-190, (1986).
56. HNILICA, P., THÝN, J., The Hammer Mill Response Influenced by the Transport Lag and its Practical Use; (in Czech) Zeměd. Tech. 30, 213-226 (1984).
57. HOCHMAN, J.M., MCCORD, J.R., Residence Time Distribution in Recycle Systems with Cross Mixing; Chem. Eng. Sci. 25, 97-107 (1970).
58. HOLOUBEK, I., THÝN, J., Processing of Response Functions Obtained by Radiotracer Measurement XIV. Combination of Direct and Optimization Method for Identification; Radioisotopy 24, 4, 573-600 (1983).
59. HOPKINS, M.J., SHEPPARD, A.J., EISENKLAM, P., The Use of Transfer Function in Evaluations Residence Time Distribution Curves; Chem. Eng. Sci. 24, 1131-1137 (1969)
60. HOUGEN, J.O., WALSH, R.A., Chem. Eng. Progr. 57, 69-79 (1961).
61. HOVORKA, R.B., An Asymmetric Residence Time Distribution Model for flow Systems; PhD Thesis, Case Institute of Technology, June, (1961).
62. HUBBEL, J., H., Photon Cross-section, Attenuation Coefficients and Energy Absorption Coefficients from 10 keV to 100 GeV. NSRDS-NBS 29, USA (1969).
63. HUGHES, M.T.G., NOTON, A.R.M., The measurement of control system characteristics by means of cross-correlator; Institution of Electrical Engineers; Paper No. 3797 M. 77-83 (1962).
64. INTERNATIONAL ATOMIC ENERGY AGENCY, Guidebook on Radioisotope Tracers in Industry; Techn. Rep. Ser. No. 316, IAEA, Vienna (1990).
65. JONES, W.P., LAUNDER, B.E., The Prediction of Laminarization with a Two-Equation Model of Turbulence, International Journal of Heat and Mass Transfer, Vol.15, pp.301-314 (1972).
66. JOON-HA, J., THÝN, J., Parallel Flows Analysis and Bypass Detection by Radiotracer Application; Int. Conf. on Isotopes Applications, Beijing ,China, May 7-12, (1995).
67. JUNGERS, J.C., BALACEANU, J.C., COUSSEMANT, F., ESCHARD, F., GIRAUD, A., HELLIN, M., LEPRINCE, P., LIMIDO, G.E.: Cinétique chimique appliquée Technip; Paris (1958).

68. KAFAROV, V.V., VYGON, V.G., GORGOJEV, L.C., Ob Ocenke Parametrov Matematicheskikh Modelej Hidrodinamicheskoy Struktury Potokov Statisticheskimi Metodami; (in Russian) Teoreticheskije Osnovy Chimicheskoy Technologii; Tom II. No.2., 266-273 (1968).
69. KAFAROV, V.V., Kybernetické metody v chemii a v chemické technologii; (translation from Russian) Alfa, Bratislava (1978).
70. KELSALL, F.F., STEWART, P.S.B., REID, K.J., Trans. Inst. Min. Metall C 77, C 120 (1968).
71. KNOLL, G., F., Radiation Detection and Measurement, John Wiley & sons, New York – Chichester – Brisbane – Toronto (1979).
72. KOLAR, Z., THÝN, J., MARTENS, W., BOELEN, G., KORVING, A., The measurement of gas RTD in pressurized fluidized-bed combustor using ^{41}Ar as radiotracer; Int. Journal of Applied Rad. and Isotopes, Vol. 38, (2) 117-122 1987
73. KOLMOGOROV, A.N. O logarifmicheski-normalnom zakone raspredeleniya razmerov castic pri droblenii, Doklady Akademii Nauk SSSR, Vol.31, No.2, 99-101 (1941).
74. KOOL, R.J.M., Dynamic Modelling and Identification of Coal Fired Pressurized Fluidized Bed Combustor, PhD Thesis, Technische Hogeschool, Delft (1985).
75. KOSTALAS, H.A., GOTSIS, C., A Radiotracer Techniques for the Measurement of the Residence Time Distribution of Grinding Mills; Int. J. Appl. Radiat. Isot. 31, 187-188 (1980).
76. KOTEK, Z., ŠTECHA, J., Theorie of Automatic Control of Connected Linear Systems; (in Czech) (Lectures ČVUT Praha) Praha (1980).
77. KRUSZOWSKA, O., WISZ, Z., Application of RTM for the Investigation of Material Transport in Industrial Ball Mills; Technical Report IBJ Warszawa (1971).
78. KRYLOV, V.T., Prilozhenije formuly Eulera-Laplaca k prilozhennomu resheniju integralnykh uravnenij tipu Voltera; (in Russian) Trudy Matem. Inst. Akad. Nauk SSSR 28, 33 (1949).
79. KUBÍN, M., THÝN, J., Radiotracer applications in the study of flow reactor; Part III. Tube reactor II; Radioisotopy 11 (1) 100-150, (1969).
80. KUBÍN, M., THÝN, J., KOPEJTKO, J., ŠTĚPÁN, O., Radiotracer applications in the study of flow reactor; Part VI.; Dynamic characteristics of the petrochemical process; Radioisotopy 18 (1) 79-102, (1977).
81. KUBÍN, M., THÝN, J., HOVORKA J., ŠVARC, Z., ŠTĚPÁN, O., Radiotracer applications in the study of flow reactor; Part VII.; Dynamic characteristics of the granulation loop in the fertilizer production; Radioisotopy 18 (2) 249-272, (1977).
82. KUDRNA, V., HASAL, P., Equalisation of concentration fluctuation in continuous equipments (in Czech), Chem. Průmysl 3 45/70 (1995).
83. KUDRNA, V., HASAL, P., Certain problems with the application of stochastic diffusion processes for the description of chemical engineering phenomena. Collect. Czech. Chem. Commun., Vol.61, 536-563 (1996).
84. KUDRNA, V., THÝN, J., Mixing in continuous system, XI. National conference on Mixing, Design of mixing equipments, Seals., Czech society of chemical engineering, Brno, 19.5-21.5, (1997).
85. LARACHI, F., KENNEDY, G. and CHAOUKI, J., A γ - ray detection system for 3-D particle tracking in multiphase reactors, Nucl. Instr. & Meth., A338, 568 (1994)
86. LAUNDER, B.E. and SPALDING, D.B.: Mathematical Models of Turbulence, Academic Press, London (1972)
87. LECLERC, J-P., DTSPRO : A software for interpretation of tracer experiments in industrial processes; Report of CM on The preparation of a technical document on intercomparison of available process engineering software in tracer technology, IAEA, Vienna, 22-25 November (1999).

88. LECLERC, J-P., MUHR, H., FINDELING, C., TERRIERE, J., and CHARONNAT, Y., Modélisation de l'écoulement de l'eau et du filler dans un malaxeur industriel et détermination de son pouvoir de lissage; Bulletin de liaison des laboratoires des Ponts et Chaussées, 201 5-15, (1996).
89. LECLERC, J-P., DETREZ, C., BERNARD, A., and SCHWEICH D.: DTS : Logiciel 'aide a l'élaboration de modèles d'écoulement dans les réacteurs. Revue de l'institut Français du pétrole, 50, 5, 641-656 (1995).
90. LEHTOLA, S., KUOPPAMÄKI, R., The Measurement of Mixing Efficiency of Continuous Mixers; Chem. Eng. Sci. 37, 2, 185-191, (1982).
91. LEVENSPIEL, O., SMITH, W.K., Notes on the Diffusion - Type Model for the Longitudinal Mixing of Fluids in Flow; Chem. Eng. Sci. 6, 227-233 (1957).
92. LEVENSPIEL, O., Chemical Reaction Engineering; John Wiley & Sons, New York (1962).
93. LEVENSPIEL, O., Chemical Reaction Engineering, 3^o ed., John Wiley & Sons, New York (1999).
94. LEVENSPIEL, O., TURNER J.C.R., The Interpolation of Residence Time Experiment, Chem. Eng. Sci. 25, 1605-1609 (1975).
95. LEWIS, M.J., Physical Properties of Foods and Food Processing Systems, Ellis Horwood Ltd., Chichester (1987).
96. LIN, J. S., CHEN, M.M., and CHAO, B.T., A novel radioactive particle tracking facility for measurement of solid motion in gas-fluidized beds, AIChE J., 31, 465 (1985).
97. LUYBEN, W.L., Process Modeling, Simulation, and Control for Chemical Engineers; McGraw-Hill, New York (1973).
98. MAKAROV, J.L., Apparaty Dlja Smeschenija Sypuschich Materialov. (in Russian) Maschinostrojenije, Moskva (1973).
99. MAŇAS, M., Optimization Methods; (in Czech) SNTL, Praha (1970).
100. MARGRITA, R., GUIZERIX, J., BEAUDOING, G., ARCHIMBAUD, M., Détermination du Pouvoir Autoépurateur d'un Cours d'eau; Measurement Detection and Control of Environmental Pollutants Proc. Symp. Vienna (1976).
101. MATHUR, V.K., WEINSTEIN, H., Chem. Eng. Sci. 35, 1449-1452 (1980).
102. MAYRHOFER, B., Transfer of results from batch fluidized drying to continuous one; (in Czech), Ph.D.- thesis, Institute of Chemical Technology, Prague, (1964).
103. MAYRHOFER, B., NEUŽIL, L., Transfer of results from batch fluidized bed drying to continuous one; Scientific papers of the Institute of Chemical Technology, Prague K 1, 275-300, (1967).
104. MERZ, A., HOLZMÜLLER, R., Radionuclide investigation into the influence of the mixer chamber geometry on the mass transport in a continuous plowshare mixer; Int.Chem.Symp.Ser. No.65, S1/D1-7Powtech, Birmingham (10-13 March 1981).
105. METAXAS, A.C., Foundations of Electroheat, J.Wiley & Sons, Chichester, (1996).
106. MICHELSEN, M.L., ØSTERGAARD, K., The Use of Residence Time Distribution Data for Estimation of Parameters in the Axial Dispersion Model; Chem. Eng. Sci. 25, 583-592 (1970).
107. MÍKA, V., Fundamentals of Chemical Engineering; (in Czech) SNTL/Alfa, Praha (1981).
108. MIKELADZE, S.F., O Čislennom Rešenii Integralnyh Uravnenij; (in Russian) Izd. Akad. Nauk SSSR 2, 257-261 (1935).
109. MISHRA, J.C., MURDESHWAR, A.S., Investigation of RTD and Kinetics Using Radioactive Tracer. Presented in Industrial Application of Radioisotopes and Radiation, NAARRI, Bombay, (1986).
110. MIXON, F.C., WHITAKER, D.R., ORCUTT, J.C., Axial Dispersion and Heat Transfer in Liquid-Liquid Spray Towers. AIChE J. 13, No.1, 21-28 (1967).

111. MIYAUCHI, T., VERMUELEN, T., Axial Dispersion in Packed Beds. *Ind.Eng. Chem. Fundament.* 2,113 (1963).
112. MUHR, H., LECLERC, J-P., DAVID R., Fluorescent UV dye: A particularly well -suited tracer to determine residence time distributions of liquid phase in large industrial reactors; *Analysis*, 27, 541-543, (1999).
113. MUSÍLEK, L., ČECHÁK, T., ŠEDA J., Empirical Formulae for Build-up Factor Calculations in Wide Conical γ -Ray Beams, *Int. J. of Appl. Rad. and Isot.*, Vol. 31, 623-27 (1980).
114. MUSÍLEK, L., ČECHÁK, T., ŠEDA J., Die Zuwachsfaktoren für breite Bündel von γ -Strahlung, *Kernenergie*, 22. Jah., 12, 432-35 (1979).
115. NAUMAN, E.B., Residence time distribution theory for unsteady stirred tank reactors; *Chem. Eng.Sci.* Vol. 24 1461-1470 (1969).
116. NAUMAN, E.B., A Note on Residence time distribution in Cyclic Reactors; *Chem. Eng.Sci.* Vol. 28 313-315 (1973).
117. NAUMAN, E.B., BUFFHAM, B.A., Limiting Forms of the Residence Time Distribution for Recycle System; *Chem. Eng. Sci.* 32, 1233-1236 (1979).
118. NAUMAN, E.B., Residence time distribution and Micromixing; *Chem. Eng. Commun.* Vol. 8 53-131 (1981).
119. NAUMAN, E.B., BUFFHAM, B.A., *Mixing in Continuous Flow-Systems*; WILEY, J., New York (1983).
120. NAUMAN, E.B., On residence time and trajectory calculations in motionless mixers, *Chem.Eng.J.*, Vol.47, 141-148 (1991).
121. NEUŽIL, L., ČERMÁK, J., DROBNÍK, P., The design of a continuous drying in two fluidized bed units in serial arrangement; (in Czech), The national CHISA conference, Maprint, Kouty nad Desnou (1995).
122. NIEMI, A., Tracer Analysis and Modelling of Industrial Ore Grinding System. *Acta Polytech. Scand.-Appl. Phys.* No.138, (1983).
123. NIEMI, A., Steady-state Optimization of Ore-dressing Plants; *Isotopenpraxis* 25(4), 177-181 (1989).
124. NIEMI, A., ZUNIGA, R., Modelling of Grinding and Flotation System by Means of Tracers; *Dev. Min. Proc. Ser.* 6, 397-408, (1985).
125. NIEMI, A., A Study of Dynamic and Control Properties of Industrial Flotation Process; *Acta Polytech. Scand.- Chem. Incl. Metall. Ser.* No.48 (1966).
126. NIEMI, A.J., Residence Time Distribution of Variable Flow Processes; *Int. Journal of Appl. Rad. and Isotopes* Vol. 28 855 - 860 (1977).
127. NOVOSAD, Z., THÝN, J., Absolute Conversion Limits for a Series of Backmix Reactors; *Collect. Czech. Chem. Commun.* 31 3710-3720 (1966).
128. ORLANDER, I., DESSAGNE, J-M., BONTHOUX, F., LECLERC, J-P., Study of the general ventilation and the local exhaust ventilation in industrial premises using residence time distribution theory. *Environmental Progress*, 159-163, 14, N°3, (1995).
129. OTHMAN Z., ALI R.M., THÝN, J., Ideal Mixing Characteristics with Variable Flow Conditions. CHISA '96, International Conference, Prague, 26-31 August (1996).
130. OTHMAN, Z., ALI, R.,M., THÝN, J., Evaluation of Hydraulic Efficiency in Waste Stabilization Ponds; *Int. Conf. on Isotopes Applications*, Beijing ,China, May 7-12, (1995).
131. PALIGE, J., THÝN, J., Radiotracer applications in the study of flow reactor; Part VIII.; Dynamic characteristics of a metallurgical process; *Radioisotopy* 18 (2) 273-295, (1977).
132. PANT, H., J., PENDHARKAR, A., S., THÝN. J., Design of a Radiotracer experiment for Measurement of Residence Time Distribution, Report RAS/92/073, UNDP/RCA/IAEA, KAERI, Taejon-Korea, 8-19 April 1996.

133. PAYNTER, H. M., *Regelungs Technik*; E. Müller, Oldenburg (1957).
134. PEKKA I.V., *Tracer Studies on a Riser of a Fluidized Catalyst Cracking Plant*; I&EC Research, 32, 577- 583 (1993).
135. PETRYKA, L., PRZEWLOCKI, K., *Radiotracer Investigations of Beneficiation Copper Ore in the Industrial Flotation*; *Isotopenpraxis* 19 (10), 339- 341 (1983).
136. PETRYKA, L., PRZEWLOCKI, K., *Optimization of Cooper Ore Concentration Processing by Means of Radioactive Tracers*; *Isotopenpraxis* 25 (4), 139-143 (1989).
137. PHAM, Q.T., KEEY, R.B., *The Use of Graphical Transfer-function Method for Residence Time Distribution Studies*, *Chem. Eng. Sci.* 32, 786-788, (1977).
138. PIPPEL, W., RUNGE, K., GEAER, H., NIESWAND, R., NAAKE G., *Verweilzeitanalyse in Technologischen Strömungssystemen*. Akademie-Verlag, Berlin (1978).
139. POTIER, O., PONS, M-N., ROCHE, N., LECLERC, J-P., GALDEMAS, L., et PROST CH., *Etude de L'hydrodynamique d'un réacteur canal a boues activées en régime variable. Récents progrès en génie des procédés, Traceurs et méthodes de traçage, Recent Progres en Genie des Procedes, Vol 12 -1998, No 61 Nancy (1998).*
140. PRESS, W.H. et al: *Numerical Recipes*, Cambridge University Press, (1986).
141. RALSTON, A., *Foundation of Numerical Mathematics*; Academia, Praha (1978).
142. RANDOLPH, A.D., LARSON, M.A., *Theory of Particulate Processes*, 2nd Ed. Academic Press, San Diego (1988).
143. Regulation No. 184/97 Coll. of 19 August 1997 on Requirements on Assurance of Radiation Protection.
144. REID, K.J., *A Solution to the Batch Grinding Equation*. *Chem. Engn. Science* 20, 953-963 (1965).
145. REKTORYS, K., *Review of Applied Mathematics*; (in Czech) SNTL, Praha (1968).
146. RIETEMA, K., *Chem. Eng. Sci.* 8, 103 (1958).
147. RIPPIN, D.W.T., *The Recycle Reactor as a Model of Incomplete Mixing*; *Ind. Eng. Chem. Fundament.* 6, 4, 488-492 (1967).
148. ROCHE, N., BENDOUNAN, R., nad PROST, C., *Modélisation del'hydrodynamique d'un décanteur primaire de station d'épuration. Revue de sciences de l' eau*, 153-372, 12, N° 61, (1994).
149. ROGERS, R.S.C., GARDNER, R.P., *Use of a Finite-Stage Transport Concept for Analysing Residence Time Distribution of Continuous Processes*, *AIChE J.* 25, 2 229-240 (1979).
150. ROSENBROCK, H.H., STOREY, C., *Computational Techniques for Chemical Engineers*; Pergamon, Oxford (1966).
151. Report UNDP/RCA/IAEA Project RAS/92/073; *Routine Analysis of Radiotracer Flow Experimental Data and Physical Model, I and II*; KAERI, Taejon - Korea, 8-19 April; 3-14 June 1996
152. RUBINOVITCH, M., MANN, U., *The Limiting Residence Time Distribution of Continuous Recycle Systems*; *Chem. Eng. Sci.* 34, 1309-1317 (1979).
153. SATER, V.E., LEVENSPIEL, O., *Two-phase Flow in Packed Beds Evaluation of Axial Dispersion and Holdup by Moment Analysis. Ind. Eng. Chem. Fundament.* 5, 86-92 (1966).
154. SINCLAIR, C.G., MCNAUGHTON, K.J., *The Residence Time Probability Density of Complex Flow Systems. Chem. Eng. Sci.* 20, 261-264 (1965).
155. SJÖSTEDT, T., *Computer Evaluation of Tracer Investigations on Systems, when Output Flow is Recirculated to the Inlet*; *Acta Polytech. Scand. Ma* 17 (1969).
156. SMITH, J.M., *Chemical Engineering Kinetics*; Mc Graw-Hill, New York (1958).
157. SPALART, P.R., ALLMARAS, S.R., *A One-Equation Turbulence Model for Aerodynamic Flows*, AIAA Paper 92-439, Reno, NV (1992)

158. STŘASÁK, P., Flow invertors for residence time distribution improvement and heat transfer enhancement, PhD. thesis (in Czech), CTU FME, Prague, (1999)
159. STREJC, V., ŠALAMON, M., KOTEK, Z., BALDA, M., Theoretical Fundamentals of Automatic Control;(in Czech), SNTL, Praha (1958).
160. ŠUTEK, L., VARGA, M., Experimental Identification Methods;(in Slovak), Veda, Bratislava (1981).
161. SZEGO, G., Orthogonal Polynomials; Am. Math. Soc. New York (1959).
162. TAIT, W.H., Radiation Detection, Butterworths, London, (1989).
163. TAYLOR, G., Dispersion of Soluble Matter in Solvent flowing slowly through a Tube, Proc. Roy. Soc. A, 219, pp.186-203 (1953).
164. The International Basic Safety Standards for Protection against Ionising Radiation and for Safety of Radioactive Sources, IAEA Safety Standards Series ST-1, Vienna (1996).
165. THÝN, J., NOVOSAD, Z., RTD of liquid and solid particles in a stirred flow system; Coll. Czech. Chem. Commun. 34 , (1968).
166. THÝN, J., HOŠPES, M., Radiotracer applications in the study of flow reactor; Part II Tube reactor I. Radioisotopy 10 (6) 889-949, (1969).
167. THÝN, J., NOVOSAD, Z., Multistage column reactors. VII. A mathematical model of solid distribution in a two-stage stirred non-flow solid-liquid system, VIII Experimental part; Collection Czechoslov. Chem. Commun. Vol 34 ,1387-1395, 1396- 1405, (1969)
168. THÝN, J., NOVOSAD, Z., Multistage column reactors. IX. Residence time distribution of liquid and solid particles in a stirred flow system; Collection Czechoslov. Chem. Commun. Vol 34, 1497-1513, (1969)
169. THÝN, J., Radiotracer Application in the Study of Flow Reactors I. RTD and Reactor Efficiency in Isothermal Conditions. (in Czech) Radioisotopy, 10, 323-382 (1969).
170. THÝN, J., KUBÍN, M., Measurement of Fast Phenomena in Chemical Engineering by means of Radioactive Tracers; Collect. Czech. Chem. Commun. 35, 1687-1694 (1970).
171. THÝN, J., The evaluation of responses functions which are obtained when radiotracer are used; Part I. Application of the scaler; Radioisotopy 15 (3) 307-328, (1974).
172. THÝN, J., Processing of Response Functions Obtained by Radiotracer measurement III. Systems with Recirculation; Radioisotopy 16, 2, 243-296 (1975).
173. THÝN, J., Processing of Response Functions Obtained by Radiotracer Measurement VI. Flow Systems with Several Inlet and Outlet Streams; Radioisotopy 16, 5, 643-646 (1975).
174. THÝN, J., HANSSON, L., RTD in system with recirculation on the outlet flow; Int. Journal of Applied Rad. and Isotopes, 26 (12) 748-752, (1975).
175. THÝN, J., The evaluation of responses functions which are obtained when radiotracer are used; Part IV. Application of the counting ratemeter. Radioisotopy 16 (3) 359-393, (1975).
176. THÝN, J., The evaluation of responses functions which are obtained when radiotracer are used Part V. On site measurements-scale size effect; Radioisotopy 16 (3) 395-412, (1975).
177. THÝN, J., HOVORKA, J., Radiotracer applications in the study of flow reactor; Part IV, The dynamic characteristics of gas in a fluidized bed of granular material in a rotary-jet pilot reactor; Radioisotopy 16 (3) 335-358, (1975).
178. THÝN, J., Processing of response functions obtained by radiotracer measurements. Part VII. Response of the system to a general input function; Radioisotopy 17 (5) 797-832, (1976).
179. THÝN, J., HOVORKA J., Radiotracer applications in the study of flow reactor; Part V, The dynamic characteristics of gas in a fluidized bed of granular material in a pilot reactor with conical bottom; Radioisotopy 17 (6) 849-872, (1976).
180. THÝN, J., HOVORKA, J., ŠVARC, Z., ŽITNÝ, R., NOVOTNÝ, P., Radiotracer Applications in the Study of Chemical Reactors IX. Dynamic Characteristics of the White Filtration Process in the Titanium White Production Plant; (in Czech) Radioisotopy 18, 5 625-668 (1977).

181. THÝN, J., HOVORKA, J., ŠVARC, Z., Service Report on RTD Measuring in Glass Tank (Tokod - Hungary); ÚVVVR, Praha (1977).
182. THÝN, J., ŽITNÝ, R., Processing of Response Functions Obtained by Radiotracer Measurement IX. Effect of Outlet Stream Recycling on the Material Turn-over Time of the Device; (in Czech), Radioisotopy 18, 4, 465-509 (1977).
183. THÝN, J., ŠVARC, Z., HOVORKA, J., ŽITNÝ, R., NOVOTNÝ, P., Radiotracer applications in the study of flow reactor. Part IX. Dynamic characteristics of white filtration process in the titanium white production plant; Radioisotopy 18 (2) 273-195, (1977).
184. THÝN, J., ŽITNÝ, R., Processing of response functions obtained by radiotracer measurements; Part IX. Effect of outlet stream recycling to the material input to the device; Radioisotopy 18(4) 465-509, (1977).
185. THÝN, J., Processing of Response Functions Obtained by Radiotracer Measurement VIII. Complex Flow Systems; (in Czech), Radioisotopy 18, 1, 37-66 (1977).
186. THÝN, J., BLAHA, L., Dynamical Characteristics of Mixed Vessel; (in Czech) Service Report ÚVVVR, Praha (1979).
187. THÝN, J., HOVORKA, J., BUREŠ, M., ŽITNÝ, R., KAŠTÁNEK, F., Radiotracer applications in the study of flow reactor. Part X. Gas response measurement after passage through a liquid layer in reactors of various sizes; Radioisotopy 20 (5) 721-745, (1979).
188. THÝN, J., OBRAZ, L., NOVOSAD, J., Processing of Response Functions Obtained by Radiotracer Measurement XII. Evaluation of Particulate Solids Discharge from Silo; (in Czech), Radioisotopy 22, 819-861 (1981).
189. THÝN, J., NOVOSAD, J., Determination of the Sequence of Discharge of Particulate Solids from Bunkers and Silos by Tracer Techniques; Int. Chem. Symp. Ser. No.65, S4/R/1-9, Powtech, Birmingham (10 -13 March 1981).
190. THÝN, J., PECHLÁK, B., HOLOUBEK, I., Radiotracer Applications in the Study of Continuous Reactors XII. Transfer Characteristics of Multistep Bleaching Process of Sulfate Pulp; (in Czech) Radioisotopy 22, 1 37-92(1981).
191. THÝN, J., ULRYCH, H., KÖPING, K., PECHLÁK, B., BLÁHA, L., Radioisotope Applications in Water Engineering II. Effect of the Arrangement of Treated Water Feed and Aeration on the RTD in Aeration Tanks, Radioisotopy 22, 4, 511-534 (1981).
192. THÝN, J., PECHLÁK, B., Processing of Response Functions Obtained by Radiotracer Measurement XI. Evaluation of Crushing and Screening in a Hammer Mill; (in Czech) Radioisotopy 22 (6), 773-818 (1981).
193. THÝN, J., BLAHA, L., Radiotracer Applications in the Study of Chemical Reactors XIII. Dynamic Characteristics of the so Called Wet Part of a NPK Fertilizer Plant; (in Czech) Radioisotopy 23, 2 157-183 (1982).
194. THÝN, J., ŽITNÝ, R., RTD Analysis of Gas by Radiotracers; (in Czech) Chem. Prům. 33, 58, 63-86 (1983).
195. THÝN, J., Evaluation of Mixing of Particulate Solids by Radiotracer Methods; Radioisotopy 24, 3, 307-349 (1983); Isotopenpraxis 19, 12, 411-418 (1983).
196. THÝN, J., PECHLÁK, B., Evaluation of Crushing and Screening of Cereals in a Hammer Mill by Radiotracer Method; Int. J. Appl. Radiat. Isot. 34, 12, 1605-1610 (1983).
197. THÝN, J., KOLAR, Z., MARTENS, W., KORVING, A., Gas Flow in Pressurized Fluidized Bed Combustor; Powder Technol. (1988).
198. THÝN, J., Optimization of Hammer Mills; Isotopenpraxis 25 ,4 151-156 (1989).
199. THÝN, J., Process Analysis and Diagnostics by Radioisotope Methods; (in Czech), ČSKAE, Prague (1990).
200. THÝN, J., VÝBORNÝ, J., Analysis of Instability and Control of Output Increase of an Industrial Chemical Reactor, Isotopenpraxis 26 5 204-209 (1990).

201. THÝN, J., KOLAR, Z., MARTENS W., Radiotracer applications in the study of flow reactor; Part XVI Fluidized-bed pressure combustion of coal; Radioisotopy 31 (2) 86-97 (1990).
202. THÝN, J., Radiotracer Techniques in the Mineral Industry; Nucl. Geophys. Vol. 5., No. 1/2 193-204 (1991) also in Technology Transfer of Nuclear Techniques and Nucleonic Control systems in the Mineral Industry; IAEA-TECDOC-578, Vienna (1990).
203. THÝN, J., BURDYCH, J., BLAHA, L., ŽITNÝ, R., Radiotracer Applications in waste water treatment". Proceeding of an International Symposium on Applications of Isotopes and Radiation in Conservation of the Environment, IAEA, Karlsruhe, 9-14 March 1992
204. THÝN, J., BURDYCH, J., BLÁHA, L., ŽITNÝ R., Radiotracer Applications in Waste Water Treatment, In. Proceedings of ISAIRCE 92, IAEA, March 9-13, Karlsruhe, Germany (1992).
205. THÝN, J., Analysis of experimental data I; Annual report RAS/8/07127, IAEA 1994
206. THÝN, J., Tracer Application in Process Control, Isotopes and Radiation Technology in Industry; Proceedings of the International Conference Bombay, India, February 7-9 (1994).
207. THÝN, J., ŽITNÝ, R., Problems of RTD Analysis with Applications of Radiotracers; Int. Conf. on Isotopes Application, Beijing, China, May 7-12, (1995).
208. THÝN, J., Analysis of experimental data II; .Annual report RAS/8/07127, IAEA 1995
209. THÝN, J., ŽITNÝ, R., DOSTÁL, M., PC programs for Analysis and Diagnosis of Apparatuses with Gas-Solid Flows. RRAI'96, International Conference, Berlin, 21-25 October (1996).
210. THÝN, J., JOON-HA JIN, STRÁSÁK, P., ŽITNÝ, R., RTD Prediction, Modelling and Measurement, CHISA '96, International Conference, Prague, 26-31 August (1996).
211. THÝN, J., RTD of a liquid and solid phase in mechanically mixed equipment of column type, Ph.D.-thesis, ČSAV, Prague (1997)
212. THÝN, J., ČECHÁK T., ŽITNÝ, R., Tracer application in dehydration and calcination in Industrial production of pigments; Traceurs at méthodes de tracage, Recent Progres en Genie des Procedes, Vol 12 -1998, No 61, Nancy (1998)
213. THÝN, J., ČECHÁK, T., ŽITNÝ, R., Trace application in dehydration and calcination in industrial production of pigments; 1st Congres Francais: Traceurs et Methodes de tracage, Nancy, France 3-4 November (1998).
214. THÝN, J., JOON-HA, J., STRÁSÁK, P., ŽITNÝ, R., RTD Prediction, Modelling and Measurement of Gas in Reactor; Int. Conference CHISA 96 Prague (1996); see also Nukleonika., Vol.43, No.1, p.95-114, (1998).
215. THÝN, J., ŽITNÝ, R., Flow structure analysis – flow localization and visualization by radioisotope methods; Progress annual report 99 Co.No. 10051/RO IAEA, Vienna (1999)
216. THÝN, J., ŽITNÝ, R., ČECHÁK, T., KLUSOŇ, J., SPĚVÁČEK, V., GERNT, J., Service Report HS-211298 ČVUT, 1998-1999
217. THÝN, J., ŽITNÝ, R., ČECHÁK, T., KLUSOŇ, J., SPĚVÁČEK, V., GERNT, J., Evaluation of holdup of solid particles in horizontal rotary kiln; 46 CHISA 99 Conference, Srní, 18-21 October (1999).
218. TICHACEK, L.J., Selectivity in Experimental Reactors. Paper presented at AIChE Meeting, San Francisco, California (1959).
219. TOLA, F., Ecrin, code Monte-Carlo, Report CEA/DTA/DAMRI/SAR/ 96-111/T40.
220. TRICOMI, F.G., Integral Equations; Interscience publishers, New York (1957).
221. VALENTAS, K.J., ROTSTEIN, E., SINGH, R.P., Handbook of Food Engineering Practice. CRC Press, N.Y., (1997).
222. VANDER LAAN, E.T., Notes on the Diffusion. Type Model for the Longitudinal Mixing of Fluids in Flow; Chem. Eng. Sci. 7, 187-191 (1958).

223. VILLEMONTÉ, J.R., ROHLICH G.A., WALLACE, A.T., Hydraulic and Removal Efficiencies in Sedimentation Basin; 3rd Int. Conf. on Water Pollution Research, München, Germany (1966).
224. VILLERMAUX, J., Génie de la Réaction Chimique, Tec. & Doc. Lavoisier (1982).
225. VRENTAS, J.S., VRENTAS, C.M.: Asymptotic solutions for laminar dispersion in circular tubes, Chemical Engineering Science, 55, pp.849-855, (2000).
226. WEN, C.Y., FAN L.T., Models for Flow Systems and Chemical Reactors; M.Dekker, Inc., New York (1975).
227. WHYTE, G.N., Principles of Dosimetry of Ionising Radiation, (Czech transl. from English), Academia, Praha (1970).
228. WHITE, E.T., Sources of Error in Measurement of Residence Time Distribution, J. Imp. Coll. Chem. Eng. Soc. 14, 72-86 (1962).
229. WILCOX, D.C. Turbulence Modeling for CFD, DCW Industries, Inc. La Canada, California, (1993).
230. WILDE, D.J., BEICHLER, C.S., Foundations of Optimization; Prentice-Hall, Englewood Cliffs, New York (1967).
231. WILLIAMS, J.C., RAHMAN M, A., Prediction of the Performance of Continuous Mixers for Particulate Solids using Residence Time Distribution; Powder Technol. 5, 87-92 (1971).
232. WILLS, B. A., Mineral Processing Technology; Pergamon Press, Oxford (1985).
233. YAGI, S., KUNNI, D., 5th Symposium on Combustion; Reinhold, New York (1955); Chem. Eng. Sci. 41, 364-372 (1962).
234. YAKHOT, V., ORSZAG, S.A. Renormalisation Group Analysis of Turbulence. I. Basic Theory, Journal of Scientific Computing, Vol.1, No.1, pp.3-51, (1986)
235. YATES, J., G., Fundamentals of Fluidized-bed Chemical Processes; Butterworths (1983)
236. YOSIDA, K., Lectures on Differential and Integral Equations; Equations Inc., New York (1960).
237. YURTSEVER, Y., Lecture Notes on Mathematical Models for Evaluation of Tracer Data in Surface Waters, IAEA, Vienna (1991).
238. ZIENKIEWICZ, O., Finite element methods in engineering science, McGraw-Hill, London (1971)
239. ŽITNÝ, R., Programming system RTD. Report CTU Prague (1976)
240. ŽITNÝ, R., THÝN, J., Processing of response functions obtained by radiotracer measurements. Part X. Parallel - stream detection from the response of the system to the arbitrary input function; Radioisotopy 20 (2) 145-213, (1977).
241. ŽITNÝ, R., THÝN, J., Processing of Response Functions Obtained by Radiotracer Measurement X. Parallel- Stream Detection from the Response of the System to the Arbitrary Input Function. Radioisotopy 20, 2, 145-213 (1979).
242. ŽITNÝ, R., THÝN, J., RTD of gas penetrating a granular spouted bed or liquid layer; Industrial Application of Radioisotopes and Radiation Technology; Proceedings of an International Conference IAEA, Grenoble, France 28. Sept. - 2. Oct. 1981
243. ŽITNÝ, R., THÝN, J., Processing of response functions obtained by radiotracer measurements. Part XV. Deconvolution algorithms; Radioisotopy 24(4) 573-600 (1983).
244. ŽITNÝ, R., THÝN, J., Processing of Response Functions Obtained by Radiotracer Measurement XV. Algorithms of Deconvolution; (in Czech) Radioisotopy 26, 6, 301-326 (1984).
245. ŽITNÝ, R., RTD Identification Methods and Their Application for Chemical Equipment Design, Habil. Thesis, Czech Technical University, Prague (1990).
246. ŽITNÝ, R., ŠESTÁK, J., AMBROS, F., Transit time method for flowrate measurement; Int. Conf. Fluid mechanics and Hydrodynamical Aspects of Biosphere, Liblice 20-21 Sept. (1993).

- 247. ŽITNÝ, R., STRÁŠÁK, P., ŠESTÁK, J., Laminar flow invertors for RTD improvement and heat transfer enhancement, 12th Int. CHISA, Prague, 25-30 August 1996
- 248. ŽITNÝ, R., THÝN, J., Residence Time Distribution Software Analysis. Computer Manual Series No.11. IAEA, Vienna, (1996).
- 249. ŽITNÝ, R., ŠESTÁK, J., DOSTÁL, M., ZAJÍČEK, M., Continuous direct ohmic heating of liquids; 13th Int. CHISA '98, 23-28 August 1998, Prague. In CD-ROM of full texts, p.11
- 250. ŽITNÝ, R., THÝN, J., RTD software for identification of spatially localized models and data standardisation; Report of CM on The preparation of a technical document on intercomparison of available process engineering software in tracer technology, IAEA, Vienna, 22-25 November (1999)
- 251. ŽITNÝ, R., THÝN, J., CFD and Tracer experiments, Parts 1. Residence Time Distribution, Workshop CTU 2000, 14-16. February (2000), Prague
- 252. ZWIETERING, Th.N., The Degree of Mixing in Continuous Flow Systems; Chem. Eng. Sci. 11, 1 (1959).