

Reference

1. Alyamani.M.S and Sen.Z, 1993. Determination of Hydraulic Conductivity from complete Grain – Size Distribution Curves. GROUNDWATER - Vol. 31, August 1993, 551-555.
2. Bair.S.E and Roadcap.G.S, 1992. Comparison of flow models used to delineate capture zones of wells, leaky-confined fractured-carbonate aquifer. GROUNDWATER - Vol. 30, April 1992, 199-211.
3. Bear. J, 1977. On the Aquifer's Integrated Balance Equations, Advances in Water Resources, McGraw-Hill Book Co., New York 1977.
4. Bear. J, 1979. Dynamics of Fluids in Porous Media, Elsevier, New York.
5. Boonstra.J and De-Ridder.N.A, 1981. Numerical modelling of groundwater basins. 29, ILRI Publication, Wageningen 1981.
6. Bredenkamp.D.B, 1990. Quantitative estimation of groundwater recharge by means of a simple rainfall – recharge relationship. International Contributions to Hydrogeology - Groundwater recharge Vol.8, 1990, 247-256.
7. Buras.N, 1963. Conjunctive Operation of Dams and Aquifers, J.Hydraulics Div. Am. Sco, Civil Engrs, 89(HY-6): 111-131, 1963.
8. Burt.O.R, 1964. The Economics of Conjunctive Use of Ground and Surface Water, Hilgarida, 36(2): 31-111.
9. CEB, 2007. Ceylon Electricity Board consumer care circular for tariff 2007.
10. Chaturvedi.M.C, 1973. Indian National Water Plan and Grid Systems Approach, 1st Congress of International Water Resources Association, Chicago, 1973.
11. Chaturvedi.M.C, 1983. Mathematical Modelling Techniques in the Management of Groundwater Resources, Seminar on Assessment, Development Management of Groundwater Resources, Central Groundwater Board, Government of India, New Delhi, April 1983.
12. Chawla A.S.1990. Groundwater Hydrology and Conjunctive Use. WRDTC University of Rookee.
13. Chun.R.Y.D, Weher.E.M, Kiyoshi Mido, 1963. Computes – Tool for Sound Management of Groundwater Basin XIII General Assembly of International Union of Geodesy and Geophysics Berkeley Calif.
14. Cooray.P.G, 1984. An introduction to the geology of Sri Lanka, National Museum of Srilanka, Colombo,1984.
15. Data for costing of Irrigation Department.
16. De Weist, 1965. Consultative lecture notes based on Todd, David K 1959 Groundwater Hydrology John Wiley New York
17. Department of Agriculture, Administration Report of Department of Agriculture 2000, North East Province. Trincomalee, Department of Agriculture
18. Department of Agriculture, Administration Report of Department of Agriculture 2001, North East Province. Trincomalee, Department of Agriculture.
19. Department of Agriculture, Administration Report of Department of Agriculture, 2002, North East Province. Trincomalee, Department of Agriculture
20. Department of Agriculture, Administration Report of Department of Agriculture 2003, North East Province. Trincomalee, Department of Agriculture
21. Department of Irrigation, Administration Report of Department of Irrigation 2000, North East Province. Trincomalee, Department of Irrigation

22. Department of Irrigation, Administration Report of Department of Irrigation 2001, North East Province. Trincomalee, Department of Irrigation.
23. Department of Irrigation, Administration Report of Department of Irrigation 2002, North East Province. Trincomalee, Department of Irrigation
24. Department of Irrigation, Administration Report of Department of Irrigation 2003, North East Province. Trincomalee, Department of Irrigation
25. Domenico.O, 1972. Concepts and Models in Groundwater Hydrology, McGraw-Hill Book Co., New York, 1972.
26. Dominico, 1972 Consultative lecture notes based on Todd, David.K, 1959. Groundwater Hydrology John Wiley New York
27. Faust and Mercer, 1993. Lecture notes of 37th WRD training in WRDTC of University of Roorkee, India.
28. Ferreira.T.C and Goncalves.D.A, 2007. Crop yield / Water use production fluctuation of crops grown under differential nitrogen and irrigation treatments in a hot, dry climate. www.sciencedirect.com.
29. Fernando.N, Sakthivadivel.R, Panaboke.C.R. and C.M.Wijayaratna, 1994. Guideline package for water development component of small tank cascade system Initial environment evaluation report December 1994.
30. Gajendragad.M.R, Ranganna.G.,Lokesh.N.K, Chandrakanth.G and Venkada Reddy.D 1988. Study of water conservation for irrigation for irrigation in coastal districts of Karnataka. Second IWRS Symposium on Water Conservation for National Development. Dec 11-12 1988 Bhopal.
31. Garg.N.K, 1985. Inverse and Direct Modelling Using an Element-by-Element Approach, Ph.D. Thesis, Department of Civil Engineering, University College of Swanea, Swanea, June 1985.
32. GRUNDFOS pump hand book, GRUNDFOS company publication 1985.
33. Guidelines for preparation of river basin master plan April 1990. Central Water Commission New Delhi India.
34. Hall.S.H, Luttrell.S.P and Cronin.W.E, 1991. A method for estimating effective porosity and groundwater velocity. GROUNDWATER - Vol. 29, April 1991, 171-174.
35. Hantush, 1964. Lecture notes of 37th WRD training in WRDTC of University of Roorkee, India.
36. Huntley.D, Nommensen.R and Steffey. D, 1992. The use of Specific capacity to assess transmissivity in fractured-rock aquifers. GROUNDWATER - Vol. 30, June 1992, 396-402.
37. Hyder.Z and Butler.J.J, 1994. Slug test in unconfined formations: An assessment of the bower and rice technique. GROUNDWATER - Vol. 33, February 1995, 16-22.
38. Ilampooranan.K, 1993. Conjunctive Use Management Model. A case study. Unpublished dissertation of MSc (WRD) of WRDIC University of Roorkee, Roorkee, India.
39. Issar.A and Passchier.R, 1990. Regional hydro geological concepts, International Contributions to Hydrogeology - Groundwater recharge Vol.8, 1990, 23-94.
40. Jacobe.R, 1950. Lecture notes of 37th WRD training in WRDTC of University of Roorkee, India.
41. Jeffrey.S and Russell.A.M, 2003, Perspectives in civil Engineering Commemorating the 150th anniversary of American Society of Civil Engineers-2003-Technology, pp401.
42. Lerner. D, 1990. Techniques. International Contributions to Hydrogeology - Groundwater recharge Vol.8, 1990, 99-228.
43. Lerner.D and Gray.R, 1990. Recharge from irrigation, International Contributions to Hydrogeology - Groundwater recharge Vol.8, 1990, 177-200.

44. Loague.K, Miyahira.R.N, Green.R.E, Oki.D.S, Giambelluca.T.W and Schneider.R.C, 1995. Chemical leaching near the Waiawa Shaft, Oahu, Hawaii. GROUNDWATER - Vol. 33, February 1995, 124-126.
45. Lonquist, 1971. Lecture notes of 37th WRD training in WRDTC of University of Roorkee, India.
46. Mergia.G and Kelly.W.E, 1994. Modelling groundwater remediation in the high plains aquifer. GROUNDWATER - Vol. 32, February 1994, 129-137.
47. Mukhopadhyay.A, Al-Sulaimi.J and Barret.J.M, 1994. Numerical modelling of groundwater resource management options in Kuwait. GROUNDWATER - Vol. 32, December 1994, 917-928.
48. Nagaraj.B.S and Dewan.R.L 1972, "Theoretical and Experimental aspects of the rise of groundwater due to Canal Irrigation" proceedings of symposium of water logging. Courses and measures for its prevention, central Board of Irrigation and Power New Delhi India, publication No.118, P.69-78.
49. Nandasena.R.A,1999, Water for the next decade, SLAAS Proceedings of the 55th Annual Session of 1999 Part II Presidential addresses etc.
50. National Water Supply & Drainage Board operational guidelines 1998.
51. Olsthoorn.T.N, 1995. Effective parameter optimization for groundwater model calibration. GROUNDWATER- Vol. 33, February 1995, 42-57.
52. Prickett.A.H, 1971 Lecture notes of 37th WRD training in WRDTC of University of Roorkee, India.
53. Peralta.R.C, Hegazy.M.A and Musharrafieh.G.R, 1994 Preventing pesticide contamination of groundwater while maximizing irrigated crop yield, Water resources research, Vol.30 No 11 pp3183-3193, 1994.
54. Ponrajah.A.P, 1984. Design of Irrigation head-works for small catchments, 2nd edition. Colombo, Irrigation Department, 1984.
55. Rao.S.S. 1979. Effectiveness of Percolation tanks as a means of artificial recharge in Drought prone Area in western Maharashtra International Symposium of Hydrological aspects of droughts, December 2-7, 1979, New Delhi.
56. RBMP, 1990. Guidelines for the preparation of River Basin Master Plan April 1990, Central water commission of India Publication No 66/90
57. Rushton.K.R, and Ward.C, 1979. The estimation of groundwater recharge. Journal of Hydrology, 41, 1979, 345 - 361.
58. Rushton.K.R, 1990. Recharge in the Mehsana alluvial aquifer, India. International Contributions to Hydrogeology - Groundwater recharge Vol.8, 1990, 297-312.
59. Shanmuganathan.S, 2004. Development of a comprehensive groundwater model to analysis the management options for Vavuniya region MSc. Thesis University of Moratuwa, 2004.
60. Shanmuganathan.S, Nimal.P.D.Gamage and Senarath.D.C.H, 2007. Groundwater modelling to predict management options for Vavuniya aquifer ENGINEER Journal of IESL January 2007.
61. Shepherd.R.G, 1989. Correlations of permeability and grain size. GROUNDWATER - Vol. 27, October 1989, 633-638.
62. Shirma.H.D and Chawla.A.S, 1977. Manual on Groundwater and Tube Well. Technical report 18, Central Board of Irrigation and Power, New Delhi- India.
63. Sidhu.B.S, 1991. "Allocation of Surface and Ground water for Conjunctive Use in Lakhauti Branch Command and Unpublished Dissertation for MSc (WVM). University of Roorkee, Roorkee, India.

64. Simmers. I, 1990. Aridity, groundwater recharge and water resources management. International Contributions to Hydrogeology - Groundwater recharge Vol.8, 1990, 3-20.
65. Sivakumar.S.S, 2001. "Ground Water Balance Study in a restricted catchment in Vavuniya to find effective recharge location by introducing new operational Policy on minor and medium Irrigation Scheme". Technical paper presented at the seminar on "IRRIGATION" for the centenary programme of the Irrigation Department held on 15th and 16th of February 2001 at BMICH, Colombo.
66. Sivakumar.S.S, 2001."Formulation of Ground Water simulation model in restricted area and calibrating the model using optimization technique with particular reference to Vavuniya". Technical paper presented at the 62nd annual sessions of SLAAS held on 2nd to 5th December 2002 at the University of Colombo
67. Sivakumar.S.S, 2002. "Application of Regional Aquifer simulation model in a restricted catchment to find effective recharge location by introducing new operational policy of minor and medium Irrigation" This was submitted at the IWMI/Colombo plan seminar on "FORWARD THINKING POLICIES FOR GROUNDWATER MANAGEMENT. ENERGY, WATER RESOURCE AND ECONOMIC APPROACHES" held on 2nd to 7th September 2002 in New Delhi, India
68. Tables for Discounted cash flow, Annuity, Sinking fund, Compound interest and Annual capital charge calculations with explanatory notes and appendix on property investment valuation and analysis. G H Lawson, D W Windle. Longman publication 1967.
69. Taskar.G.K and Guswa J.H, 1978 "Application of a Mathematical Model to Estimated Water Level Vol.16 No 18-21.
70. Thiruvekeatsamy.K.R, 1984. Percolation Ponds, 13th AICEME proceedings Association of Engineers India, Calcutta, Pages 14-24 March-July1984.
71. Thomas.C, 1973. Lecture notes of 37th WRD training in WRDTC of University of Roorkee, India.
72. Todd.David K. 1959 "Groundwater Hydrology" John Willes, New York
73. Trescott.P.C, Pinder.G.S and Larson.S.P, 1976. "Finite Difference Model for Aquifer Simulation in Two Dimensions with Results of Numerical Experiments," U.S. Geol. Survey, Techniques of Water Resources Investigations, Book 7, Automated Data Processing and Computations, 1976.
74. Varshney.R.S, 1986. Engineering hydrology, third edition. Roorkee, India 1986.
75. Vavuniya District Secretariat, Statistical handbook of Vavuniya District 2000. Vavuniya, Government Agent Vavuniya
76. Vavuniya District Secretariat, Statistical handbook of Vavuniya District 2001. Vavuniya, Government Agent Vavuniya.
77. Vavuniya District Secretariat, Statistical handbook of Vavuniya District 2002. Vavuniya, Government Agent Vavuniya
78. Vavuniya District Secretariat, Statistical handbook of Vavuniya District 2003. Vavuniya, Government Agent Vavuniya
79. Walton, 1970 Lecture notes of 37th WRD training in WRDTC of University of Roorkee, India.
80. WRB, 2002. Report on the pumping test analysis at Ukkulankulam Vavuniya, Water Resource Board, HG/GA/VAVU/2002, 2002.
81. Welcome to the wonderful world of GRUNFOS pumps guide GRUNDFOS company publication 1985.
82. Yoganarasimhan.G.N and Chand.J.P,1979. "Integrated Planning of Surface and Groundwater" proceeding of workshop on "Conjunctive use of Surface and Groundwater" at WRDIC University of Roorkee.

Bibliography

1. Abdylrazzak.M.J and Morel seytooux.H.J. 1983 "Racehorse from an ephemeral stream following wetting front arrival to water table" Water Resource Vol. 19 n.i. P.194-200.
2. Athavale. R N and Rangarajan, R, 1990. Natural recharge measurements in the hard rock regions of semi – arid India using tritium injection – a review. International Contributions to Hydrogeology - Groundwater recharge Vol.8, 1990, 235-245.
3. Barlow.P M, 1994. Two - and three dimensional path line analysis of contributing areas to public-supply wells of Cape Cod, Massachusetts. GROUNDWATER - Vol. 32, June 1994, 399-410.
4. Bouwer.H. 1965 "Theoretical aspects of seepage from open channels. Journep Hydraulics Div. American Society of civil engineers V.91 N3 P37-59
3. Buxton.H, Modica.E, 1992. Pattern and rates of groundwater flow on Long island, New York. GROUND WATER - Vol. 30, December 1992, 857-866.
5. Calvache.L M and Bosch.A P, 1994. Modelling the effects of salt-water intrusion dynamics for a coastal certified block connected to a detritus aquifer. GROUNDWATER - Vol.32, October 1994, 767-775.
6. Chapuis.R P, 1994. Assessment of methods and conditions to locate boundaries: 1. One or two straight impervious boundaries. GROUND WATER - Vol. 32, August 1994, 576-582.
7. Chaturvedi.M.C, 1973. Indian National Water Plan and Grid Systems Approach, 1st Congress of International Water Resources Association, Chicago, 1973.
8. Chatuvedi.M.C, 1978. Water Resource Systems Planning and Management Tata McGraw-Hill Publication New Delhi. PP349 – 363.
9. Cheng.X and Anderson.M P, 1993. Numerical simulation of groundwater interaction with lakes allowing for fluctuating lake levels. GROUND WATER - Vol. 31, December 1993, 929-933.
10. Chow.V.T 1952 on the determination of Transmissibility and Storage coefficient from pumping test data Trans. American Geophysical Union V-33, P 397-404.
11. Clemente.R.S, Dejony.R, Hayhoe.H.N, Reyolds.W.D and Hares.M 1994 "Testing and comparison of three unsaturated soil water flow model Journal of Agr. Water management V.25, P.135-152.
12. Cooley. R.L. 1977. "A Method of Estimating Parameters and Assessing Reliability for Models of Steady State Groundwater Flow, 1, Theory and Numerical Properties", Water Resources Res., 13(2), 318-324, 1977.
13. David Huntley, Roger Nommensen and Duane Steffey, 1992. The use of specific capacity to Assess Transmissivity in fractured rock aquifer Vol 30, No3 – Around water May-June 1992.
14. Desai.C.S, 1974. Finite Element Method for Flow in Porous Media. Sec. 10, in Finite Element Methods in Flow Problems Univ. of Alabama, at Huntsville, pp.511-515, 1974.
15. De Silva.C.S, 1995. The use of agro wells for supplementary irrigation from Hard – rock aquifers of Sri Lanka. PhD Thesis, Silsoe College, Cranfield University, UK, 1995.
16. Dhillon.G.S. 1968 " Estimation of seepage losses from unlined channel Indian Journal Power River Valley V.7, N.2, P. 347-366.
17. Domenico.O, 1972. Concepts and Models in Groundwater Hydrology, McGraw-Hill Book Co., New York, 1972.
18. Domenico.P.A, 1966. The Optimum Use of a Groundwater and Surface Water System: A Parametric Linear Programming Approach, University of California, Water Resources Centre, Los Angles, Contrib., 107 1966.

19. Dominico.O.R, 1972 Consultative lecture notes based on Todd and David.K, 1959 Groundwater Hydrology John Wiley New York
20. Dreizin.Y.C, 1975. Application of the Superposition Approach to the Modelling and Management of Ground and Surface Water Resources, Ph.D. Dissertation, Systems Engineering Department, Case Western Reserve University, Cleveland, Ohio, 1975.
21. Fernando.A D N, 1973. The groundwater resources in Sri Lanka. Colombo, Ministry of Irrigation, Power and Highways, May 1973.
22. Ferris.J.H, Knowles.D.B, Brown.R.H and Stallmas.R.W, 1962. Theory of Aquifer Tests vs. Geological Survey Water Supply Project Paper 1536 E P 69 – 174.
23. Ghassemi, F, Jakeman, A J and Thomas, G A, 1989. Groundwater modelling for salinity management an Australian case study. GROUND WATER - Vol. 27, June 1989, 384-392.
24. Guvanasen.V, Frink.P and Boufadel.M, 1989. A practical method of optimizing groundwater remediation systems, 1989.
25. Huston.J, 1990. Rainfall-runoff-recharge relationships in the basement rocks of Zimbabwe. International Contributions to Hydrogeology - Groundwater recharge Vol.8, 1990, 271-283.
26. Hyder.Z and Butler.J.J, 1995. Slug test in unconfined formations: An assessment of the bower and rice technique. GROUNDWATER - Vol. 33, February 1995, 16-22.
27. Johansson.P.O, 1990. Two groundwater models for estimation of natural direct groundwater recharge – a comparative study in Sandy Till. International Contributions to Hydrogeology - Groundwater recharge Vol.8, 1990, 285-296.
28. Kawecki.M.W, 1993. Recovery analysis from pumping tests with stepped discharge. GROUND WATER - Vol. 31, August 1993, 585-592.
29. Kruseman.G P and De Ridder. N. A, 1983, Analysis and evaluation of pumping test data.
30. Ku.H.F.H, Hagelin.N.W, and Buxton.H.T, 1989. Effects of urban storm – control groundwater recharge in Nassau County, New York. GROUNDWATER - Vol. 30, August 1989, 507-514.
31. Kuo.M.C.T, Wang.W.L, Lin.D.S, Lin.C.C and Chiang.C.J, 1994. An image – well method for predicting drawdown distribution in aquifers with irregularly shaped boundaries. GROUNDWATER - Vol. 32, October 1994, 794-795.
32. Lacroix.M, Wang.H.Q and Blavoux.B 1996 "Water table modelling to estimate irrigation losses. Agri. Water management V.30, P.283-300.
33. Manoutebv and Heidari, 1982. "Application of Linear Systems Theory and Linear Programming to Ground Water Management in Kanas" Water Resource Association Dec.1982.
34. Narasimhamurthy.S, 1998. A Multiple Linear Regression Model for Estimating Groundwater Levels. Journal of Indian Water Resave Society Vol 9 No.4 Oct.1989.
35. Nielsen.G.Land Widjaya.J.M, 1989. Modelling of groundwater recharge in southern Bali, Indonesia. GROUND WATER - Vol. 27, August 1989, 473-480.
36. ODA, 1981. North – West land and water resources development project report (report on groundwater resources of Vanathavillu basin), July 1981.
37. Phillips.S.P and Belitz.K, 1991. Calibration of a texture – based model of a ground – water flow system, western San Joaquin valley, California. GROUNDWATER - Vol. 33, October 1991, 702-715.

38. Piggott.A.R, Bobba.A.G and Xiang.J, 1994. Inverse analysis implementation of the sutra groundwater model. GROUNDWATER - Vol. 32, October 1994, 829-836.
39. Plato.P.R, 1993. SHYDG.FOR – Hydrograph package for MODFLOW. GROUNDWATER - Vol. 31, December 1993, 1025-1028.
40. Power.B.F and Barnes.R, 1993. Model calibration techniques for use with the analytic element method. GROUNDWATER - Vol. 31, February 1993, 91-97.
41. Prudic, D E, 1988. Documentation of a computer program to simulate stream-aquifer relations using a modular, finite-difference, groundwater flow model. U.S.Geological Survey open file report, 1988, 729.
42. Ramakrishna.C.V, Chaturvedi.M.C, and Prasad.R.K, 1983. "Analysis of Inverse Problem in Groundwater using Optimal Control and Finite Elements", International Journal of Numerical Methods in Engineering (submitted) 1983.
43. Razack.M and Huntley.D, 1991. Assessing Transmissivity from specific capacity in a large heterogeneous alluvial aquifer. GROUNDWATER - Vol. 29, December 1991, 856-861.
44. Reilly.T.E and Harbaugh.A.W, 1993. Simulation of cylindrical flow to a well using the U.S. Geological Survey modular finite – difference groundwater flow model. GROUNDWATER - Vol. 31, June 1993, 489-494.
45. Richard.C.Peralta, Pant.J.Killian, 1989 "Decision Support for optimal Region Groundwater Management Strategy Modification Transaction of the ASCE Oct.1989.
46. Robson.S.G, 1995. Preparation of specific yield logs for classic bedrock aquifers. GROUNDWATER - Vol. 33, February 1995, 4-10.
47. Romijn.E, 1990. Introduction to the case studies. International Contributions to Hydrogeology - Groundwater recharge Vol.8, 1990, 233-234.
48. Saxena.R.S. 1980. "Assessment of ground water recourse in irrigation areas of India. Present studies and scope of future" Process of the third ICID Agro. Asian regional conference, Necdclhi, India. P-209-226.
49. Shah.P.C, Gavalas.G.R and Seinfeld.J.H, 1978. "Error Analysis in History Matching: The Optimum Level of Parameterization", Soc. Pet. Eng. J., 18(3), 219-228, 1978.
50. Singh.V S and Gupta.C P, 1993. The significance of the extent of recovery in interpreting aquifer pumping test data from large diameter wells. GROUNDWATER - Vol. 31, October 1993, 753-755.
51. Swain.E D, 1994. Implementation and use of direct – flow connections in a coupled groundwater and surface water model. GROUNDWATER - Vol. 32, February 1994, 139-144.
52. Theis.C.V, 1952 Relation between the Lowering the Dies metric Surface and the Rate an Duration of Discharge of well using Groundwater Storage A.M.Geophys Union Trans Pb.2, P519 – 524 vs. Geology Survey Groundwater note 1952.
53. Thiery.D, 1990. Analysis of long duration piezometric records from Burkina Faso to determine aquifer recharge. International Contributions to Hydrogeology - Groundwater recharge Vol.8, 1990, 313-323.
54. Thiruvkenkatsamy K.R, 1983. Behaviour of water table in wells in Tamilnadu 1983 – unpublished.
55. Tsang.C.F, 1991. The modelling process and model validation. GROUNDWATER - Vol. 29, December 1991, 825-831.
56. Wills R.Finnoy B.A. and Zhang D. Scot, 1985. "Water Resource Management in North China Plain Journal of Water Resource Planning and Monogamy" ASCE 1985.
57. Young, R.A and Bredehoeft J.B. 1972. "Digital Computer Simulation for Solving Management Problem of Conjunctive Groundwater and Surface Water System" Water Resource Research B (3) 625-638.