


Alcock, P., | 1985. | Rainwater harvesting in the Vulindlela district, KwaZulu, Occasional Publication No. 1, Department of Crop Science, University of Natal, Pietermaritzburg, 16 p. | [PUMP]

Alcock, P.G., | 1986. | Save on water costs - use that roof runoff!, Naunlu. No. 763, April 1986, p. 4-8. | [PUMP]


Alcock, P.G. and Lea, J.D., | 1985. | The upgrading of domestic rainwater collection systems in peri-urban/rural KwaZulu, Occasional Publication No. 4, Department of Crop Science, University of Natal, Pietermaritzburg, 42 p. and map. | [PUMP]

Allen, R., | 1983. | Preliminary report on windmill selection, Division of Agricultural Engineering, Department of Agriculture, Pretoria, 15 p. | [PUMP]

Anonymous, | [undated]. | Manual for the building of circular reservoirs, Leaflet No. LTD 7-57 E, Division of Agricultural Engineering, Department of Agricultural Technical Services, Pretoria, 13 p. | [PUMP]

Anonymous, | [undated]. | Prolit Product Promotions: construction information index of building elements, materials and services, VOL 1-4, various pages, Randburg. | [PUMP]

Anonymous, | [undated]. | Soil-cement, Portland Cement Institute, Johannesburg, 39 p. | [PUMP]


Anonymous, | [undated]. | TATU self help manual on how to protect and develop springs into permanent rural water supply systems, Transkei Appropriate Technology Unit, Umtata, 20 p. [Obtainable from the Transkei Appropriate Technology Unit, Private Bag X5029, Umtata, 5100]. | [PUMP]

Anonymous, | [undated]. | The Valley Trust rural technician spring protection course, Valley Trust, Botha's Hill, 34 p. | [PUMP]

Anonymous, | [undated]. | Watervoorsiening vir veesuipingstelsels: handleiding vir die ontwerp van pypleidingspompe en kragBronne, Department of Agriculture and Water Supply, Pretoria, various pages. [This publication will be shortly updated]. | [PUMP]


Anonymous, | 1963. | Concrete structures for farm water supplies, Portland Cement Institute, Johannesburg, 68 p. | [PUMP]


Anonymous, | 1970. | Concrete septic tanks, Portland Cement Institute, Johannesburg, 9 p. | [PUMP]


Anonymous, | 1976. | Field drainage for sugarcane, Bulletin No. 18 (revised), Experiment Station of the South African Sugar Association, Mount Edgecombe, 33 p. | [PUMP]


Anonymous, | 1980. | Dompelpompe: amptelike toetsverslae / Submersible pumps: official test reports No. 79001-79019, Division of Agricultural Engineering, Department of Agriculture and Fisheries, Pretoria, 26 p. | [PUMP]


Anonymous, | 1980. | Spring improvement, Link, No. 18, p. 35-37. | [PUMP]


Anonymous, | 1981. | How to protect a spring, Link, No. 23, p. 31-36. | [PUMP]


Anonymous, 1982. Project management: a need for a professional approach, ChemSA, VOL 8(6), p. 60-64, 69-73, 76. [This paper consists of various individual contributions, from a project management symposium]. [PUMP]


Anonymous, 1983. More water from the river ... and at a lower cost, thanks to a sophisticated sand-point system, Farmer’s Weekly, 14 January 1983, p. 40-42. [PUMP]


Anonymous, 1984. Farm reservoirs: a manual for farmers, smallholders and others faced with the problem of providing for water-storage for irrigation, watering of stock and household use, Portland Cement Institute, Halfway House, 45 p. [PUMP]


Anonymous, | 1985. | The 1985/6 Building Index, Avonwold Publishing Company, Johannesburg, 306 p. + app. [This publication lists the names and addresses of members of the Institute of South African Architects, the South African Association of Consulting Engineers, the Engineers’ Association of South Africa (Private Practice Group), the South African Council for Professional Land Surveyors and Technical Surveyors, the Institute of Landscape Architects of Southern Africa, the Association of South African Quantity Surveyors and the South African Institute of Town and Regional Planners. Details are also provided for other institutes, associations, societies and statutory bodies involved with building, construction and related activities]. | [PUMP]


Anonymous, | 1988. | Manual on the design of small sewage works, Water Institute of Southern Africa, Johannesburg, various pages. [This manual is an updated and revised version of an earlier publication entitled, ‘A guide to the design of sewage (wastewater) purification works’, which was published by the (then) Institute of Water Pollution Control (Southern African Branch)]. | [PUMP]


Anonymous, | 1989. | Specifile compendium: building products, Specifile Ltd, Johannesburg, 458 p. [This publication lists suppliers/manufacturers of certain items of technology (water and sanitation), which might be of interest to the reader. Note that Specifile refers mainly to the architectural, building and civil engineering construction sectors. See also individual files, especially: 6 Plumbing services 70-73: Civil library manual no. 1, containing Sections C-99 and 5, Roof finishes 59-62]. | [PUMP]

Anonymous, | [1990]. | Groundwater: guidelines for boreholes, Borehole Water Association of Southern Africa, the Division of Earth, Marine and Atmospheric Science and Technology of the CSIR, the Department of Agricultural Development, the Department of Water Affairs and the Geological Society of South Africa, Pretoria, 29 p. | [PUMP]

Anonymous, | 1990. | One of the earliest forms of energy: windpower, Shell Farmer, No. 98, p. 6-9. | [PUMP]


Askew, A., | 1986. | The design, construction and installation of a low cost water pumping windmill for Maputaland development project, Final Year B.Sc. (Eng) Thesis, Department of Mechanical Engineering, University of Natal, Durban, 81 p. | [PUMP]


Barber, R.E., | 1975. | An investigation into the comparative economics of domestic potable water piping, Final Year Thesis, Department of Quantity Surveying, University of Natal, Durban, 102 p. | [PUMP]


Bernstein, B.W. and Van Vuuren, L.R.J., | 1985. | Pilot and full-scale application of DAF technology to treat eutrophic waters from Lake Insezi, Biennial Conference and Exhibition of the Institute of Water Pollution Control (Southern African Branch), VOL 1, 27-30 May 1985, Durban, 1 p. [Abstract]. | [PUMP]


Blomkamp, Y., | 1987. | ERI energy thesaurus, ERI Report No. 120, Energy Research Institute, University of Cape Town, Rondebosch, 207 p. | [PUMP]


Britz, P., | 1993. | ‘n Eerste in die RSA vir energie, Agring, No. 11, January 1993, p. 13-16. [This paper briefly describes a Department of Agriculture renewable energy technology exhibition and evaluation centre
in Silverton, Pretoria. Organizations involved with the centre include the Solar Energy Society of Southern Africa, and the Department of Mineral and Energy Affairs. 

Browne, R.R., | [undated]. | Provision of water on the farm: C1 Properties of water, C2 Flow of water, C3 Hydraulic gradients [see also Annexure to C3 - Friction curves], C4 Piping, C5 Centrifugal and piston pumps, Division of Agricultural Engineering, Department of Agricultural Technical Services, Silverton, 32 p. + app. | [PUMP]


Butler, R.J., | 1986. | Roof drainage, Final Year B.Sc. (Eng) Thesis, Department of Civil Engineering, University of Natal, Durban, 80 p. | [PUMP]


Canter, P.H., | 1982. | Appropriate technology applicable to the Lowveld, Zimbabwe Science News, VOL 16(3), p. 54-56. [This paper discusses rampumps and the technique of slow sand filtration]. | [PUMP]


Clancy, G.J., | 1986. | The development of a low cost water pumping windmill, Final Year B.Sc. (Eng) Thesis, Department of Mechanical Engineering, University of Natal, Durban, 82 p. | [PUMP]


Cleghorne, W.S.H., | 1919. | The hydraulic ram, Local Series No. 68, Department of Agriculture, Pretoria, 10 p. | [PUMP]


Cook, C.E., | 1984. | A proposed national policy on appropriate technology policy, Policy Research Series, Transkei Appropriate Technology Unit, Umtata, 23 p. | [PUMP]


Crabtree, P.R., | 1980. | Water supply and drainage research at the National Building Research Institute, Paper No. 11, Seminar on Water Supply and Drainage Services in Developing Countries, National Building Research Institute, CSIR, 30 September - 2 October 1980, Pretoria, 8 p. | [PUMP]


De Vries, R., | 1992. | Who’s who in appropriate technology, Appropriate Technology Information Centre, Division of Information Services, CSIR, Pretoria, 413 p. | [PUMP]


Diab, R.D., | 1984. | Contribution of wind power to South Africa’s energy requirements, Sixth International Conference on Air Pollution, National Association for Clean Air, October 1984, CSIR, Pretoria. | [PUMP]


Dixson, R.C., | 1958. | Clean water from roofs: an idea from Australia, Municipal Affairs, VOL 23(271), p. 15. | [PUMP]

Doppegieter, J.J., Du Toit, J. and Van Vuuren, E., | 1993. | Energy futures 1993, Institute for Futures Research, University of Stellenbosch, Stellenbosch, various pages. [This publication, which is updated annually, provides an overview of important trends in energy issues, including photovoltaic and wind power, as well as biomass (wood and agricultural waste) energy]. | [PUMP]


Du Toit, I., | 1992. | Irri info, Directorate of Irrigation Engineering, Department of Agricultural Development, Silvertown, 132 p. [The publication lists various items of irrigation equipment and also provides details of manufacturers/suppliers]. | [PUMP]


Eberhard, A.A. and Dickson, B.J., | 1991. | Energy consumption patterns and alternative energy strategies for underdeveloped areas of Bophuthatswana, ERI Report No. GEN 144, Energy Research Institute, University of Cape Town, Rondebosch, 112 p. | [PUMP]


Eckard, J.H., | [undated]. | Power generation with water, Division of Agricultural Engineering, Department of Agricultural Technical Services, Pretoria, 4 p. | [PUMP]

Eckard, J.H., | 1974. | Choice and use of centrifugal pumps, Leaflet No. C.8, Division of Agricultural Engineering, Department of Agricultural Technical Services, Pretoria, 3 p. | [PUMP]


Edwards, P.D., | 1981. | Water purification in the rural areas of the developing countries, Final Year B.Sc. (Eng) Thesis, Department of Civil Engineering, University of Natal, Durban, 83 p. | [PUMP]


Gerntholtz, R., | 1986. | A basic guide to inventions and patent law, Allegretto Ltd, Cape Town, 101 p. | [PUMP]


Gosnell, R.J., | 1989. | Literature survey on photovoltaic water pumping, ERI Report No. GEN 127, Energy Research Institute, University of Cape Town, Rondebosch, 36 p. | [PUMP]


Gosnell, R.J., | 1991. | Demonstration and evaluation of a photovoltaic powered water pump, ERI Report No. INT 154, Energy Research Institute, University of Cape Town, Rondebosch, 408 p. | [PUMP]


Green, R.W., | 1986. | Wind generator, Final Year B.Sc. (Eng) Thesis, School of Electrical and Electronic Engineering, University of Natal, Durban. | [PUMP]


Haviland, P.H., | 1927. | The hydraulic ram, Rhodesia Agricultural Journal, VOL 24(11), p. 1144-1151. | [PUMP]

Hazelhurst, R.C. and Retief, P.R., | 1976. | A slow sand filtration water treatment plant of simple construction and easy operation for use in the KwaZulu homelands, Water Supplies Division, Department of Works, KwaZulu Government Service, Durban, 7 p. | [PUMP]


Hellwig, D.H.R., | 1966. | Determination of the particle size distribution mainly of Swakop River sand, with particular reference to the selection of suitable sand mixtures to be used in the evaporation studies of Project 901, S.W.A. Regional Laboratory, National Institute for Water Research, CSIR, Windhoek, 10 p. + app. [Sand dams]. | [PUMP]


Hellwig, D.H.R., | 1967. | The determination of correlation between the various factors which influence the evaporation and evapotranspiration of water out of sand beds, Project Report No. 4, S.W.A. Regional Laboratory, National Institute for Water Research, CSIR, Windhoek, 27 p. + app. [Sand dams]. | [PUMP]


Human Sciences Research Council, | 1992. | The role of non-governmental organizations (and other development organizations) in the dissemination of alternative energy technology in the 'Black’ rural areas of South Africa, Report No. EO 9123, [Department of Mineral and Energy Affairs], Pretoria, 74 p. | [PUMP]


Johnson, A.R. and Rodd, M.G., | [undated]. | Model for determining effectiveness of a solar/wind powered battery charger, Faculty of Engineering, University of the Witwatersrand, Johannesburg, 17 p. ||[PUMP]


Johannesburg, 202 p. [This publication briefly discusses groundwater drainage as it affects buildings, the corrosion of water piping and the construction of septic tanks and French drains]. | [PUMP]


Lamberti, G.A., | 1980. | Small scale hydro power plants, Final Year B.Sc. (Eng) Thesis, Department of Civil Engineering, University of Natal, Durban, no pagination. | [PUMP]


Liebenberg, J.C., 1940. Concrete bricks for the construction of dams and farm buildings, Farming in South Africa, VOL 15(168), p. 85-86. [PUMP]


Lion-Cachet, S., 1989. Ferrocement domed roof, Final Year B.Sc. (Eng) Thesis, Department of Civil Engineering, University of Natal, Durban, 112 p. [PUMP]


Lloyd, P.J.D., 1988. Technology’s contribution to development, Civil Engineer in South Africa, VOL 30(2), p. 77-84. [PUMP]


Mann, C., 1986. Ferrocement tanks, toilets and spring protections: an introduction to the techniques, training and transfer of a holistic water and sanitation strategy applicable to rural and peri-urban underdeveloped areas, Paper No. 2.1, Seminar on Technology Transfer in Water Supply and Sanitation in Developing Areas - Bophuthatswana, International Water Supply Association (IWSA), the National Institute for Water Research and the National Building Research Institute of the CSIR and the Government of the Republic of Bophuthatswana, 10-12 June 1986, Mmabatho, 6 p. [PUMP]


Merensky, K., | 1968. | The thermometric measurement of the efficiency of high-lift centrifugal pumps: measurements of the wear of centrifugal pumps handling untreated mine water, and some thoughts on the economic importance of pump efficiency in typical mine pumping operations, M.Sc. (Ing) Thesis, Faculty of Engineering, University of Pretoria, Pretoria, 177 p. | [PUMP]

Miller, P.M., | [undated]. | Know your own borehole, Borehole Water Association of Southern Africa, Johannesburg, 36 p. | [PUMP]


Murray, K.A., | 1987. | Wastewater Treatment and Pollution Control, Water Research Commission, Pretoria, 367 p. [This comprehensive book is an important source of information. The book deals with a wide variety of topics, including diseases as well as the treatment of domestic and selected industrial sewage and wastewaters. Data are also provided on the chemical and microbiological composition of faeces and urine. A brief history of sanitation in South Africa is outlined]. | [PUMP]


Naeser, D., | 1982. | The potential for alternative technology to supply the energy needs in underdeveloped rural regions, Report No. 50/01/14, Energy Research Institute, University of Cape Town, Rondebosch, 190 p. + app. | [PUMP]

Naeser, D.F.D., | 1983. | The potential for alternative technology to supply the energy needs of the rural population of South Africa, M.Sc. (Eng) Thesis, Department of Mechanical Engineering, University of Cape Town, Rondebosch, 196 p. + app. | [PUMP]


Neveling, J.V., | 1990. | Voorgestelde ontwikkelings riglyne vir behuisingsprojekte, Departement van Gemeenskapsontwikkeling, Cape Provincial Administration, Cape Town, 269 p. | [PUMP]


Nicholas, G., | 1971. | Dramatic find may save millions, Farmer’s Weekly, 31 December 1971, p. 66-69. [This paper discusses the extraction of groundwater from a dry river bed, using well-point pipes]. | [PUMP]


Piche, M., | 1988. | Large diameter boreholes, Borehole Water, VOL 13, p. 6-7, 10, 34. | [PUMP]


Pitchford, R.J., | 1953. | Some observations on aquatic snails in relation to centrifugal and hydraulic ram pumps, Public Health, VOL 17(3), p. 325-327. | [PUMP]


Pomare, E., | 1980. | The self starting characteristics and performance evaluation of straight bladed vertical axis windmills, B.Sc. (Eng) Thesis, Department of Mechanical Engineering, University of Cape Town, Rondebosch. | [PUMP]


Purcell, C., | 1991. | Battery performance characteristics in stand-alone photovoltaic systems, ERI Report No. INT 158, Energy Research Institute, University of Cape Town, Rondebosch, 339 p. [It would appear that a similar report by Purcell, C.J. de V., dated 1992, was published by the Institute as Report No. GEN 151]. | [PUMP]


Radford, K., | 1984. | Wind energy, Final Year B.Sc. (Eng) Thesis, School of Electrical and Electronic Engineering, University of Natal, Durban, 64 p. | [PUMP]


Robertson, G.I., | 1987. | Low cost windmill development design, construction and installation of a windmill speed control mechanism and a diaphragm pump, Final Year B.Sc. (Eng) Thesis, Department of Mechanical Engineering, University of Natal, Durban, 62 p. | [PUMP]
Rodd, M.G., | 1985. | Development technology research: report on the development of small irrigation schemes in the district of Mahlabatini, KwaZulu, undertaken in collaboration with the National Development Committee of the South African Red Cross Society, Faculty of Engineering, University of the Witwatersrand, Johannesburg and the South African Red Cross Society, [Durban], 33 p. | [PUMP]


Schumann, T.E.W., | [undated]. | Projek vir die verkryging van water uit wolke en newels, [Weather Bureau, Department of Transport, Pretoria], 13 p. | [PUMP]


Serapins, H.W., | [undated]. | Tests on a Michell/Banki turbine, Department of Mechanical Engineering, University of Cape Town, Rondebosch. | [PUMP]

Serapins, H.W., | 1978. | The design of a 2 kw hydroelectric device for operating at a head of 5 metres, B.Sc. (Eng) Thesis, Department of Mechanical Engineering, University of Cape Town, Rondebosch. | [PUMP]


Sinclair, D. and Eberhard, A.A., | 1988. | Photovoltaic market research project: international developments in photovoltaic technology and economics, Report No. CON 38/2, Energy Research Institute, University of Cape Town, Rondebosch. [This report consists of five volumes but no further details are available as the report is currently regarded as confidential]. | [PUMP]


Slabbert, T.J.C., | 1983. | The need for development and application of appropriate technology in South Africa, Institute for Planning Research, University of Port Elizabeth, Port Elizabeth, 9 p. | [PUMP]

Slabbert, T.J.C., | 1984. | Appropriate technology for the basic needs of South Africa, M.Com. Thesis, Faculty of Economic Sciences, University of Port Elizabeth, Port Elizabeth, 112 p. [This thesis was also issued by the Institute for Planning Research as Report No. 28]. | [PUMP]


Smit, I., | 1993. | Pipes in agriculture, Directorate of Irrigation Engineering, Department of Agriculture, Silverton, 66 p. | [PUMP]


Solsona, F., | 1992. | Final report on rain water harvesting: the use of geotextiles for the reduction of turbidity levels in rain water, Project No. 670 32839, Water Care Programme, Division of Water Technology, CSIR, Pretoria, 23 p. | [PUMP]


Stevens-Guille, P.D., | [1985]. | An innovation in water ram pump for domestic and irrigation use, [formerly of the Department of Civil Engineering, University of Cape Town, Rondebosch], 6 p. + app. [This low-cost ram pump made from standard pipe fittings and valves was developed by Stevens-Guille in about 1976 and subsequently by G. Rosenthal, a senior lecturer in the Department]. [See: Hood, R., 1980, elsewhere on this database]. | [PUMP]


Tredoux, G., | 1987. | The role of artificial recharge in groundwater management at Atlantis, Biennial Conference and Exhibition of the Institute of Water Pollution Control (Southern African Branch), VOL 2, 12-15 May 1987, Port Elizabeth, 18 p. | [PUMP]


Van Dyk, G.J., | 1941. | Cement reservoirs for windmills, Farming in South Africa, VOL 16(181), p. 46. | [PUMP]

Van den Aardweg, L., | [1989]. | Condensing atmospheric water vapour into usable water (the Zulu’s call this ‘magic water’), KwaZulu Development Corporation Ltd, Umlazi, 13 p. [The condenser is attached to the roofs of houses. The author’s address is: Natal Trust Farms Ltd, P O Box 396, Umkomaas, 4170]. | [PUMP]


Van Vuuren, L.R.J. and Sadzik, P., | 1987. | The development of constant flow liquid dosing equipment which operates without external power, Biennial Conference and Exhibition of the Institute of Water Pollution Control (Southern African Branch), VOL 1, 12-15 May 1987, Port Elizabeth, 11 p. | [PUMP]

Van Woerkom, J. and Streutker, A., | 1971. | Handleiding vir dreinering van besproeiingsgronde, Soil and Irrigation Research Institute, Department of Agricultural Technical Services, Pretoria, 31 p. | [PUMP]


Widegren, K.A., 1904. On artificial underground water, Natal Agricultural Journal and Mining Record, VOL 7(7), p. 682-690. [PUMP]


Williams, P.G., | 1987. | A study of bacteria reduction by slow sand filtration, Biennial Conference and Exhibition of the Institute of Water Pollution Control (Southern African Branch), VOL 1, 12-15 May 1987, Port Elizabeth, 16 p. | [PUMP]


Wipplinger, O., | 1953. | The storage of water in sand: an investigation of the properties of natural and artificial sand reservoirs and of methods of developing such reservoirs, D.Sc. Thesis, Department of Civil Engineering, University of Stellenbosch, Stellenbosch, 216 p. [Sand dams]. | [PUMP]


Wiseman, K., | 1989. | Guide to technology selection and planning for village water supplies utilizing groundwater and spring water sources, ERI Report No. GEN 128, Energy Research Institute, University of Cape Town, Rondebosch, 94 p. | [PUMP]


