

References

- Abuel Wafa, T. and Labib, A.H., (1970):*** "Investigation of seepage losses from the Aswan High Dam Reservoir Commition International desert grand Barrages, Montréal, Canada.
- Aly, A.I.M., Sadek, M.A., Dahab, K.A., and Salem, W.M. (2004):*** "Implication of structural elements and lithofacies on groundwater flow and recharge at Tushka – Abu Simbel area." International Eighth Conference of Nuclear Sciences & Applications. A Special Issue of Arab Journal of Nuclear Sciences & Applications. Vol. II, pp.677-699.
- American Society for Testing and Materials (ASTM), (2002):*** "Water and environmental technology." Annual book of ASTM standards, U.S.A., Sec. 11, Vol.11.01, and 11.02, West Conshohocken,
- Appello, C. A. J., and Postma, D. (1993):*** "Geochemistry, groundwater and pollution." A. A. Balkema, Roterdam / Brookfield, 533 pp.
- Ayers, R.S. (1977):*** "Quality of water for irrigation". Jour. of the irrigation and drainage division. Am. Sc. Civ. Eng., U.S.A., Vol. 103, No. IR2.
- Ball, J. (1927).*** "Problems of the Libyan desert." Geogr, J., 70: 21-38, 105-128, 209-224, London, U. K.
- Burdon, D.J. (1958a):*** "Metasomatism of groundwater at depth." UNESCO course on Hydrogeology, Desert Institute, Cairo, Egypt.
- Chebotarev, I.I. (1955):*** "Metamorphism of natural waters in the crust of weathering." Geochim. Cosmochim. Acta, **8**, part I, pp. 22-48, part II, pp. 137-170 and part III, pp. 198-212, London and New York.
- CONOCO (1987):*** "Geological map of Egypt." NF 36 NW El Sad El Ali. Scale 1:500000. The Egyptian General Petroleum Corporation. Conoco Coral.
- Dojilido, J. and Best, G. (1993):*** "Chemistry of water and water pollution." Ellis Horwood series in water and waste water technology, New York and London, 363 p.
- Doneen, L.D. (1959):*** "Evaluating the quality of irrigation water in Venture country." State Department of Water Resources, U.S.A., Bull. 75, Vol.75, Chapter II.
- Doneen, L.D. (1961):*** "The influence of crop and soil on percolating waters." Proceedings of groundwater recharge conference, U.S.A.
- Desert Research Center (2009):*** "Assessment of groundwater potentialities and management at Tushka area". Internal report, second stage, Cairo, Egypt, (In Arabic).

- Durfor, C.N. and Becker Edith (1964):** "Public water supplies of the 100 largest cities in the United States, 1962". U. S. Geological Survey Water Supply, paper 1812, 364 p.
- Durov, S.A. (1948):** "Classification of natural waters and graphic representation of their composition." Doklady Akad. Nurak, USSK, V. **59**, No. 1, pp. 87-90.
- Eaton, F. M. (1950):** "Significance of carbonates in irrigation waters." Soil Sci., Vol. 69, No. 2, pp. 127-128.
- Ebraheem. M.O (2004):** "Geophysical studies on geological and environmental hazards at Abu-Simbil region". Ph.D. Thesis. Fac. Sci. Assuit. Uni. 120p.
- El Hinnawi, E.E., and Atwa, S.M. (1973):** "Geochemistry of ground waters from some localities West of the Nile Delta." Sonderdruck Geol. Rundschau, Band 62, No. 1, pp. 225-245.
- El- Ramly, I.M. (1973):** "Final report on geomorphology, hydrology planning for groundwater resources and land reclamation in Lake Nasser region and its environs." Gover. Of Asw., Reg. Plan of ASW., Lake Nasser Cen. And Inst., Cairo, A.R.E.
- El Sabri, M. A. (2006):** "Evaluation and management of groundwater resources in the area between Abu Simbel and Toshka, South Western Desert, Egypt." Ph.D. Thesis, Fac. Sci., El Minufiya Univ. Egypt, 215p.
- El Shazly, E.M., M.A. Abdel Hady, I.A. El Kassas and M.M. El Shazly (1974):** "Geologic interpretation of ERTS-1 Satalitte Images for east Aswan area, Egypt." 9th International Symposium on Remote Sensing of Environmental processing, Environmental Research Institute of Michigan. Ann Arbor, pp. 105-117.
- El Shazly, E.M. and M.A. Abdel Hady (1977):** "Geology and groundwater condition of Toshka basin area Egypt." Utilizing Landsat Satellite Images (Nasa Landsat investigation 2793 and CB 7920). Remote Sensing Center, Cairo, Egypt.
- El Shazly, E.M. Abdel Hady, M.A., El Ghawaby, M.A., Soliman, A.B., El Kassas, I.A., Khawaski, S.M., El Amin, H., , H., Rakaiby, M.M El asy, I.E., Abdel magid, A.A., and Mansour, S.I., (1980):** "The Geologic map of Egypt, the structural lineation map of Egypt, and the drainage map of Egypt based on LANDSAT-1 Imagery interpretation and field investigations: Remote Sensing Center, Academy of Scientific Research and Technology, Cairo: Oklahoma sate university, Stillwater, Oklahoma and United Nations Environment Program. (GEMS): 12 maps. Scale: 1:1000000.

- Fishman, M.J. and Friedman, L.C. (1985):** "Methods for determination of inorganic substances in water and fluvial sediments." U.S. Geol. Surv., Book 5, Chapter A1. Open File Report, pp.85-495, Denver, Colorado, U.S.A
- Freeze, R. A. and J. A. Cherry. (1979):** "Groundwater." Prentice Hall, Inc.
- Hendricks, F., P. Luger, H. Kallenbach and J.H. Schroder (1984):** "The stratigraphical and the sedimentological framework of the Kharga Sinn El Kaddab Stretch (Western and Southern parts of the Upper Nile basin) Western Desert, Egypt." In E. Klitch et. Al., Research in Egy. And Sud., Berliner.
- Higher Committee for Water (1995):** "Egyptian standards for drinking water and domestic uses." Cairo, Egypt (In Arabic).
- Himida, I.H. (1964):** "Artesian water of the oases of the Libyan Desert (UAR)." Special publication of MOSOCOW Geologic Survey Institute (MGRU), Mscow, U.S.S.R. (Russian lang).
- Himida, I.H. (1967):** "Remarks on the absolute age determination of the Artesian water of the Oases of the Western Desert with special references to Khaga oases." Bull. De inst. Du Desert. D`Egypt, TxVII, No2, 1967 (issued in Dec., 1969), Cairo.
- Himida, I.H. (1968):** "A quantitative study of the Artesian water exploitation resources in Kharga and Dakhla Oases Western Desert of Egypt."
- Himida, I.H. (1996):** "Over view of the development and Utilization of Nubian Artesian in North East Africa." Proceeding of the workshop on major Artesian basins in North Africa, organized by DRC and S.S.O. Cairo, Egypt.
- Hounslow, A. W. (1995):** "Water quality data analysis and interpretation." New York, Lews Publisher
- Issawi, B. (1968):** "The geology of Kurkur-Dungul area. Egypt." Geol.Surv. Cairo.(46):102.
- Issawi, B. (1969):** " The geology of Kurkur-Dungle area." .General Egypt Organization for Geological Research and Mining, Geological Survey. Paper No. 46, Cairo, 102p.
- Issawi, B. (1971):** "Geology of Darb El Arbain, Western Desert." Annals of the geological Survey of Egypt". V.I, P 53-92.
- Issawi, B. and El-Hinawi (1984):** "Contribution to the study of the plays in Southeastern part of the Western Desert of Egypt." In Cattle- Keepers of the Eastern Sahara, The Neolithic of Bir Kiseiba, ed. A.E. Close.
- Klitzsch, E. (1978):** "Geologist bearbitung sudwest-Agyptens." Program and Ergebniss-Geol. Rdsch., 67(2):pp.509-520.

- Klitzsch, E. (1980):** "Neue stratigraphic und palao geographische ergebnisse aus dem nordWest-Sudan." Berliner Geowiss. Abk., A(20). pp. 217-222.
- Leeden, V.F., Troise, F.L. and Todd, D.K. (1990):** **"The water Encyclopedia."** Lewis publishers, 808 p.
- McKee, J.E. and Wolf, H.W. (1963):** "water quality criteria." California State Water Quality Control Board. Publ. 3A., U.S.A.
- Mewafy, F.M (2007):** " Geophysical studies on Tushka area, south Western Desert, Egypt." ph. D. Thesis. Fac. Sci. Assuit. Uni, 129p.
- Mokhtar, M. (1988):** "Some geological and hydrogeological studies on the area South West of Egypt." Ms.c. Faculty of Science, Minufiya University, 1988.
- Omar, H.A. (1988):** "Interrelationship between the High Dam and the groundwater in its vicinity." Ph.D. Thesis, Faculty of Science of Aswan. Assuit Uni.169p.
- Omar, H.A. (1996):** "Hydrogeological and Hydrogeochemical studies of the High Dam Lake region and its vicinities, south Egypt." Ph. D. Thesis, Fac. Sci, Cai. Uni. 258p.
- Panda, U.C., Sundaray, S.K., Rath, P., Nayak, B.B. and Bhatta, D. (2006):** "Application of factor and cluster analysis for characterization of river and estuarine water systems - a case study: Mahanadi River (India)." Journal of Hydrology, Vol. 331, pp. 434-445.
- Plummer, L. N. (1992):** "Geochemical modeling of water-rock interaction: past, present, future. In: Kharaka, Y. K. (Ed.). Proceedings of the 7th international symposium on water-rock interaction. A. A. Balkema, Amsterdam, The Netherland, pp. 23-33.
- Piper, A.M. (1953):** **"A graphic representation in the geochemical interpretation of groundwater analysis."** *American Geophysical Union Transactions, U.S.A., Vol. 25, pp. 914-923.*
- Rainwater, F. H. and Thatcher, L. L. (1960):** "Methods for collection and analysis of water samples." U.S. Geol. Survey. Water Supply, Paper No. 1454, U.S.A., 301 p.
- Research Institute Ground Water (RIGW, 1985 a, b):** "Geology and geomorphology of Egyptian Component International Nubian project." Report to Research Institute for Groundwater, Cairo.
- Revelle, R.(1941):** "Criteria for recognition of sea water in groundwater." Am. Geophys. Union Trans, vol.22, pp. 593-597.

- Richards, L.A. (1954):** "Diagnosis and improvement of saline and alkaline soils." U.S. Department of Agricultural Handbook, No. **60**, U.S. Govt. Print Office, Washington DC., U.S.A., 160 p.
- Russeger, J.R. (1938):** "Geognontische Beobachtungen in Agypten." N.jb. Min. p623-637 Heidelberg.
- Sallam, O. (2002):** "Groundwater sustainability for development, Toshka area." Ms.c. Faculty of Engineering, Ain Shams Uni. 2002.
- Sandford, K. S. (1935):** "Sources of water in the northwestern Sudan." Geogr. J., 85: 412-431, London, U. K.
- Schoeller, H. (1962):** "*Geochemie des eaux souterraines*". *Rev. de l'Institut Francais du Potrole*, Vol. 10, pp. 230-244.
- Shata, A. (1982):** "Hydrogeology of the great Nubian Sandstone basin, Egypt." Quaternary Journal of Engineering Geology. Vol. 15, pp. 127-133.
- Simpson T.H. (1946):** "Salinas basin investigation." Bull.52, Calif. Div. Water Resources, Sacramento, Calif., U.S.A., 230 p.
- Solin, N.A. (1946):** "Basis of classification of natural waters." Moscow, U.S.S.R. (In Russian).
- Sparks, T. (2000):** "Statistics in Ecotoxicology". Wiley. Chichester.
- Starinsky, A., Bielski, M., Ecker, A. and Steinitz, G. (1983):** "Tracing the origin of salts in groundwater by Sr isotopic composition (The crystalline complex of the southern Sinai), Egypt." Isotope Geoscience, Vol. **1**, pp.257-267.
- Tavitian, C. (1994):** "Mixing Phenomena due to Sea-water intrusion in the limestone Zarakas Mountain Range". Groundwater quality, Nash & McCall (eds), Chapman & Hall. ISBN 0412586207.
- Thabit, G.K. (1994):** "Sedimentology of the Nubia Group in the area southwest of Aswan (Abu-Simbel area)." M.Sc.Thesis, Assuit Uni. 160p.
- Todd, D. K. (1959):** "Groundwater hydrology." Second Ed., John Wiley and Sons Inc., N.Y., 336 p.
- Vega, M., Pardo, R., Barrado, E. and Deban, (1998):** "Assessment of seasonal and polluting effects on the quality of river water by exploratory data analysis." Water Research 32, pp.3581-3592.
- Wilcox, L.V. (1948):** "The quality of water for irrigation use." U.S. Dept. Agric., Techn. Bull. No. 962, pp. 1-40.
- Willet, P. (1987):** "Similarity and Clustering in Chemical Information Systems." Research Studies Press, Wiley, NY.

World Health Organization, WHO (1971): “European standards for drinking water.” 2nd edition, Geneva, U.S. Environmental Protection Agency, 1975, and World Health Organization and European standards for drinking water, 1970.

World Health Organization, WHO (1971): “International standards for drinking water.” Geneva, Switzerland, 70 p.

World Health Organization, WHO (1972): “International standards for drinking water.” 3rd edition, Geneva, Switzerland.

World Health Organization, WHO (1996): “Guidelines for drinking water quality.” 2nd edition, Vol. 2, Health criteria and other supporting information, 1996 (pp. 940-949) and Addendum to Vol. 2, 1998 (pp. 281-283) Geneva, Switzerland.