

LIST OF PUBLICATIONS¹ OF JACOB BEAR

January, 2010

- R-1** Kruyse, M. P. C. and Bear, J. Investigations of ground water movement and related problems in Zealand Flanders by means of a horizontal slit model (viscous flow analogy). Government Institute for Water Supply, The Hague, Netherlands, 55p., 1956.
- R-2** Kahana, Y., and Bear, J., Report on the hydrological situation in Emek-Hefer, Tahal, Tel-Aviv, P.N. 23a, 38pp., May 1957.
- R-3** Bear J., Artificial replenishment of ground water, Tahal, Tel-Aviv, P.N. 24, 43 p. (in Hebrew) Feb. 1958.
- Ch-4** Breuer, J., and Bear, J., Hydroelectric Plants, Chap. 23 in Engineering Handbook (in Hebrew) edited by S.G. Ettingen, 1958.
- R-5** Bear, J., Principles of ground water hydrology, Tahal, Tel-Aviv, P.N. 59, 51 p. (in Hebrew) Feb. 1959.
- R-6** Bear, J., and Kahana, Y., The determination of ground water levels from measurements in pumping wells, Tahal, P.N. 40, 12 p. (in Hebrew), March 1958.
- R-7** Todd, D.K., and Bear, J., River seepage investigations, Water Resources Center Contribution 20, Hydraulic Laboratory, Univ. of California, Berkeley, 163 pp., Sept. 1959.
- J-8** Bear, J., Scales of viscous analog models for ground water studies *Proceedings of the A.S.C.E., Journ. of Hydraulic Division*, **86**(HY2):11-23, 1960.
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- J-12** Bear, J., Some experiments on dispersion, *Journal of Geophysical Research*, **66**(8):2245-1467, 1961.
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- R-14** Kahana, Y., and Bear, J., Ground water investigations in Israel, (in Hebrew), Symposium on Hydraulic Research in Israel, Technion City, Haifa, pp. 55-61, 1961.
- Ch-15** Bear, J., Chapter on "Hydrology" in the Hebrew Encyclopedia (3000 words), (in Hebrew).
- R-16** Zaslavsky, D., and Bear, J., Investigations on the drainage of the 108" Main Conduit, Stage II: Capillary Rise, Technion, Israel Institute of Technology, Soil Mechanics Lab. P.N. 1/61, Oct. 1961, 30 pp. (in Hebrew with English abstract).
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- R-18** Kahana, Y., and Bear, J., Safe yield determination in a coastal aquifer, Water Planning for Israel, Tel Aviv, P.N. 208, June 1961, 19 pp.
- R-19** Bear, J., and Zaslavsky, D., Underground storage and mixing of water, Progress Report No. 1, Technion, Israel Institute of Technology, Hydraulic Lab. P.N. 2/62 April, 1962, 102 pp.
- R-20** Irmay, S., Bear, J., and Zaslavsky, D., Determination of Hydraulic conductivity of soils by means of infiltration rings, Technion, Israel Institute of Technology, Hydraulic Lab., P.N. 1/62, May 1962, 68 pp.

¹B—book, J—article in refereed journal, C—conference, R—report, Ch—chapter in edited book, Ed—book editor, D—discussion.

- R-21** Bear, J., and Dagan, G., The use of the hodograph method for ground water investigations, Technion, Israel Institute of Technology, Faculty of Civil Engineering, P.N. 24, 47 pp. Dec. 1962.
- R-22** Bear, J., and Dagan, G., The transition zone between fresh and salt waters in coastal aquifers, Progress Report No. 1: The Steady Interface between Two Immiscible Fluids in a Two-Dimensional Field of Flow, Technion Israel Institute of Technology, Hydraulics Lab. P.N. 3/62, 124 pp. Dec. 1962.
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- C-24** Bear, J., and Peranio, A., In situ measurement of ground-water salinity, Indian Institute of Science Symposium on Hydraulics and Hydraulic Machines, Bangalore, India, pp. 304-310, May 1963.
- R-25** Bear, J., and Dagan, G., The transition zone between fresh and salt waters in coastal aquifers, Progress Report No. 2: A. Steady Flow to an Array of wells above the Interface, B. Approximate Solution for a Moving Interface, Technion, Israel Institute of Technology, Hydraulics Lab., P.N. 1/63, 46 pp. July 1963.
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- J-30** Bear, J., and Dagan, G., Moving interfaces in coastal aquifers, *Journ. of the Hydraulic Div., A.S.C.E.*, **90**(HY4):193-216, 1964.
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- R-33** Mercado, A., and Bear, J., Planning the Haifa Bay experimental field, Underground water storage study, Tech. Report No. 3, Water Planning for Israel Ltd., Tel-Aviv, P.N. 284, 28 pp., June 1964.
- D-34** Bear, J., Discussion on a paper "Hydraulic electric analog computers", by Walton, W.C., *Proc. of A.S.C.E.*, **90**(HY4):321-324, 1964.
- R-35** Bear, J., and Jacobs, M., Underground storage and mixing of water, Progress Report No. 2: The movement of water bodies injected into confined aquifers, Technion, Israel Institute of Technology, Hydraulic Lab., P.N. 2/64, 43 pp., July 1964.
- R-36** Bear, J., and Dagan, G., The transition zone between fresh and salt waters in coastal aquifers, Progress Report No. 3: The unsteady interface below a coastal collector, Technion, Israel Institute of Technology, Hydraulics Lab., P.N. 3/64, 122 pp., August 1964.
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- R-42** Mercado, A., and Bear, J., Mixing of labelled water by recharging and pumping in the same well, Water Planning for Israel, Ltd., Underground Water Storage Study, Technical Report No. 24, P.N. 511, 146 pp., December 1965, (in Hebrew).
- R-43** Bear, J., Jacobs, M., and Braester, C., The use of models and analogs in reservoir engineering, Technion, Israel Institute of Technology, Hydraulics Lab., P.N. 2/66, 135 pp., January 1966.
- R-44** Bear, J., and Dagan, G., The transition zone between fresh and salt waters in coastal aquifers, Progress Report No. 4: Increasing the yield of a coastal aquifer by means of special operation techniques, Technion, Israel Institute of Technology, Hydraulics Lab. P.N. 1/66, 81 pp., January 1966.
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- J-102** Corapcioglu, Y., and J. Bear, A Mathematical model for regional land subsidence due to pumping, Part 3. Intergrated equations for a phreatic aquifer, *Water Resources Research*, **19**(4):895-908, 1983.
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