

PUBLICATIONS CITED

- Acker, W. L.
1974. Basic procedures for soil sampling and core drilling. Acker Drill Co., Inc., Scranton, Penn.
- Albertson, M. L., J. R. Barton, and D. B. Simons.
1960. Fluid mechanics for engineers. 561 p. Prentice-Hall, Inc., Engelwood Cliffs, N.J.
- Anderson, K. E.
1973. Water well handbook. 281 p. Missouri Water Well Drillers Association.
- Arora, H. S., J. B. Dixon, and L. R. Hossner.
1978. Pyrite morphology in lignitic coal and associated strata of east Texas.
Soil Sci. 125(3):151-159.
- Bailey, P. A.
1968. Exploration methods and requirements in surface mining. Pfeider, E. P. (ed.), American Institute of Mining, Metallurgical, & Petroleum Engineers, Inc.
- Bean, R. T.
1967. Planning and programming the ground water investigation in Methods and techniques of ground water investigation and development. United Nations Education, Scientific, and Cultural Organization, Water Resources Series No. 33, p. 53-71. United Nations, New York.
- Bear, J.
1972. Dynamics of fluids in porous media. 764 p. Amer. Elsevier Publ. Co., Inc., New York.
- Begemann, H. K. S.
1961. A new method for taking samples of great length. Proc., Fifth Int. Conf. on Soil Mechanics and Foundation Engr., Paris, vol. 1, p. 437-440.
- Begemann, H. K. S.
1971. Soil sampler for taking an undisturbed sample 66 mm in diameter and a maximum length of 17 meters. Proc. Speciality Session, Quality in Soil Sampling, Fourth Asian Conference, Int. Soc. Soil Mech. and Foundation Engr., Bangkok, p. 54-57.
- Begemann, H. K. S.
1974. The delft continuous soil sampler. Bull. Int. Assoc. Engr. Geol. No. 10, p. 35-37.
- Bishop, A. W.
1948. A new sampling tool for cohesionless sands below ground water level. *Geotechnique*, vol. 1, p. 125-131.
- Black, C. A. (ed.).
1965. Methods of soil analysis. Monogr. No. 9, Part I, Am. Soc. Agronomy, Madison, Wisc.
- Black, C. A. (ed.).
1965. Methods of soil analysis. Monogr. No. 9, Part II, Am. Soc. Agronomy, Madison, Wisc.
- Blanchet, P. H., and C. I. Godwin.
1972. "Geology system," for computer and manual analysis of geologic data from porphyry and other deposits. *Econ. Geol.* 67:796-813.
- Boast, C. W., and D. Kirkham.
1971. Auger hole seepage theory. *Soil Sci. Soc. Am. Proc.* 35:365-374.
- Bond, L. O., R. P. Alger, and A. W. Schmidt.
1971. Well log applications in coal mining and rock mechanics. *Trans. Soc. Mining Engr., AIME* 250:355-362.

- Bowen, H. J. M.
1966. Trace elements in biochemistry. 241 p. Academic Press, New York.
- Breckenridge, R. M., G. B. Glass, F. K. Root, and W. G. Wendell.
1974. Campbell Co., Wyoming-Geologic map atlas and summary of land, water, and mineral resources. Geol. Surv. Wyo., County Resour. Series No. 3.
- Broms, B. B., and A. Hallen.
1971. Sampling of sand and moraine with the Swedish Foil Sampler. Proc., Specialty Session, Quality in Soil Sampling, Fourth Asian Conference, Int. Soc. Soil Mech. and Foundation Engr., Bangkok, p. 49-53.
- Campbell, M. D., and J. H. Lehr.
1973. Water well technology. 681 p. McGraw-Hill Book Co., New York.
- Cannon, H. L., and H. C. Hopps.
1972. Geochemical environment in relation to health and disease. Geol. Soc. Am. Spec. Pap. 140.
- Caruccio, F. T., J. C. Ferm, John Horne, Gwendelyn Giedel, and Bruce Baganz.
1977. Paleoenvironment of coal and its relation to drainage quality. Environ. Protec. Tech. Ser., EPA-600/7-77-067, Nat'l. Environ. Res. Cent., Cincinnati, Ohio.
- Chapman, H. D. (ed.)
1966. Diagnostic criteria for plants and soils. 499 p. Riverside Calif. Univ., Div. Agric. Sci.
- Chun, Dan.
1978. Data bank for geologic field work (GEOBANK) and extension. Society of Mining and Engineering, p. 1320-1325.
- Connor, J. J., and H. T. Shacklette.
1975. Background geochemistry of some rocks, soils, plants and vegetables in the conterminous United States. U.S. Geol. Surv. Prof. Pap. 574.
- Connor, J. J., J. R. Keith, and B. M. Anderson.
1976. Trace-metal variation in soils and sagebrush in the Powder River Basin, Wyoming and Montana. U.S. Geol. Surv. Res. 4:49-59.
- Cooper, H. H., Jr., J. D. Bredehoeft, and I. S. Papadopoulos.
1967. Response of a finite-diameter well to an instantaneous change of water. Water Resour. Res. 3(1):263-269.
- Cragg, J. B.
1971. Advances in ecological research. Academic Press, New York.
- Dahl, A. R., and J. L. Hagmaier.
1974. Genesis and characteristics of the southern Powder River Basin uranium deposits, Wyoming, U.S.A. In Formation of uranium ore deposits, p. 201-216. International Atmoic Energy Agency, Vienna.
- Dames and Moore.
1976. Development of premining and reclamation plan rationale for surface coal mines, volume I of III. The rationale for data acquisition. Prepared for U.S. Department of the Interior Bureau of Mines, Contract No. J0255002.
- Dames and Moore.
1976. Development of premining and reclamation plan rationale for surface coal mines, volume II of III. Methods of data acquisition. Prepared for U.S. Department of the Interior Bureau of Mines, Contract No. J0255002.

- Dames and Moore.
1976. Development of premining and reclamation plan rationale for surface coal mines, volume III of III. Legal controls of surface mining. Prepared for U.S. Department of the Interior Bureau of Mines, Contract No. J0255002.
- Davis, J. F.
1973. A practical approach to uranium exploration drilling from reconnaissance to reserves. In Proceedings of a panel on uranium exploration methods. p. 109-123. International Atmoci Energy Agency, Vienna.
- Dollhopf, D. J., and others.
1978. Selective placement of coal stripmine overburden in Montana. III. Spoil mixing phenomena. Mont. Agric. Exp. Stn. Reclam. Res. Prog., Mont. State Univ., Bozeman. 68 p.
- Ekstrom, T. K., A. Wirstam, and L. Larsson.
1975. COREMAP — a data system for drill cores and boreholes. Econ. Geol. 70:359-368.
- Ferris, J. G., D. B. Knowles, R. H. Brown, and R. W. Stallman.
1962. Theory of aquifer tests. U.S. Geol. Surv. Water Sup. Pap. 1536E.
- Ferris, J. G., and D. B. Knowles.
1963. The slug-injection test for estimating the coefficient of transmissibility of an aquifer. In Methods of determining permeability transmissibility and drawdown. U.S. Geol. Surv. Water Sup. Pap. 1536/I.
- Freeze, R. A., and J. A. Cherry.
1979. Ground water. Prentice-Hall Inc., Englewood Cliffs, N.J.
- Fukoka, M.
1969. General report of the symposium on soil sampling. Osaka, Japan. Paper 5, Special soil sampler used for sampling in the western Osada area, by K. Komada and Y. Okayama. Proc. Spec. Session No. 1, 7th Int. Conf. Soil Mech. Foundation Engr., Mexico, p. 90.
- Garber, M. S., and F. C. Kaopman.
1968. Methods of measuring water levels in deep wells. Techniques of water resources investigations of the U.S. Geol. Survey, Book 8, Ch. A-1, 23 p.
- Godwin, C. I., R. E. Hindson, and P. H. Blanchet.
1977. GEOLOG: a computer-based scheme for detailed analysis of stratigraphy, especially as applied to data from drill holes in coal exploration and development. Coal Investigation Maps Bull., p. 123-132.
- Goodman, R. E.
1976. Methods of geological engineering in discontinuous rocks. West Publishing Co., New York.
- Groenewold, G. H.
1979. Hydrologic and hydrochemical characterization of selected stripmine spoils in western North Dakota. In Ecology in coal resource developments. M. K. Wali (ed.), Pergamon Press, New York.
- Grube, W. E., Jr., R. M. Smith, E. M. Jencks, and R. N. Singh.
1972. Significance of weathering in a Pennsylvanian sandstone to pollution from strip mines. Nature 236 (5341):70-71.
- Heath, R. C.
1976. Design of ground water level observation well program. Ground Water J. 14(2):71-77.
- Hem, J. D.
1970. Study and interpretation of the chemical characteristics of natural water. U.S. Geol. Surv. Water Resour. Pap. No. 1973, 2nd ed., 363 p.

- Hemphill, D. D.
1973. Trace substances in environmental health. Proc., 7th Missouri Univ. Annu. Conf. p. 83-87.
- Hinkley, T. K., R. J. Ebens, and J. G. Boerngen.
1978. Overburden chemistry and mineralogy at Hanging Woman Creek, Big Horn County, Montana and recommendations for sampling at similar sites. U.S. Geol. Surv. Open-file Rep. 78-393.
- Hodgson, H. E. (ed.).
1978. Proceedings of the second symposium on the geology of Rocky Mountain coal—1977. Colo. Geol. Surv. Resour. Ser. 4, 219 p.
- Hvorslev, M. J.
1951. Time lag and soil permeability in ground water observation. Waterways Experiment Station, Bull. No. 36, U.S. Corps of Engineers, 50 p. Vicksburg, Miss.
- Huff, K. O., and A. D. Youngberg.
1978. A cuttings sampling system for better geological evaluation. Unpubl. USFS-SEAM Study Rep. Thunder Basin National Grasslands, Campbell County, Wyo.
- Jenkins, J. C.
1969. Practical applications of well logging to mine design. Am. Inst. Mining, Metallurg. and Petrol. Engr., Inc., preprint 69-F-73.
- Johnson Division UOP.
1975. Ground water and wells, a reference book for the water-well industry. 440 p. Edward E. Johnson, Inc., St. Paul, Minn.
- Keefer, W. R., and R. F. Hadley.
1976. Land and natural resource information and some potential environmental effects of surface mining of coal in the Gillette area, Wyoming. U.S. Geol. Surv. Circ. 743, 27 p.
- Korcak, R. F., and D. S. Fanning.
1978. Extractability of cadmium copper, nickel, and zinc by double acid versus DTPA and plant content of excessive soil levels. J. Environ. Qual. 7:506-512.
- Kunkle, G. R.
1965. Computation of ground water discharge to streams during floods or to individual reaches during base flow by use of specific conductance. U.S. Geol. Surv. Prof. Pap. 525-D.
- LeClerg, E. L., W. H. Leonard, and A. G. Clark.
1962. Field plot technique. 373 p. Burgess Publ. Co., Minneapolis, Minn.
- LeRoy, L. W., D. O. LeRoy and J. W. Raese, (eds.)
1977. Subsurface geology, petroleum, mining, construction. 941 p. Colorado School of Mines, Golden.
- Lindsay, W. L., and W. A. Norvell.
1978. Development of a DTPA test for zinc, iron, manganese, and copper. Soil Sci. Am. J. 42:421-428.
- Mathews, A. L.
1969. Some undisturbed soil sampling methods and procedures used by the U.S. Army Engineer Waterways Experiment Station. Proc. Spec. Session No. 1, 7th Int. Conf. Soil Mech. Foundation Engr., Mexico, p. 61-68.
- McKell, C. M., and Associates.
1978. Rehabilitation potential for the Henry Mountain coal field. Bureau of Land Management, U.S. Department of the Interior, EMRIA Report No. 15, Denver Federal Center, Denver, Colo.

- McWhorter, D. B., and D. K. Sunada.
1977. Ground water hydrology and hydraulics. 290 p. Water Resources Publications, Fort Collins, Colo.
- Melton, R. A., and J. C. Ferm.
1978. Photo-book construction and computer-assisted procedures for assimilation and preparation of core data. In H. E. Hodgson. (ed.). Proceedings of the second symposium on the geology of Rocky Mountain coal - 1977. p. 143-148. Colo. Geol. Surv. Resource Series 4.
- Metcalf and Eddy, Inc.
1972. Wastewater engineering. 782 p. McGraw-Hill, New York.
- Miesch, A. T.
1976. Sampling designs for geochemical surveys — syllabus for a short course. U.S. Geol. Surv., Open-File Report 76-772, Denver, Colo., 140 p.
- Mills, T. R., and M. C. Clar.
1976. Erosion and sediment control, surface mining in the eastern U.S. Environmental Protection Agency, Industrial Environmental Research Laboratory, Cincinnati, Ohio, EPA-625/3-76-006.
- Mitchell, R. L.
1964. Trace elements in soil. In F. E. Baer (ed.). Chemistry of the soil. p. 320-368. Van Nostrand Reinhold Co., New York.
- Moran, S. R., G. H. Groenewold, and J. A. Cherry.
1978. Geologic, hydrologic and geochemical concepts and techniques in overburden characterization for mined-land reclamation. Rep. of Invest. No. 63, North Dakota Geol. Surv., 152 p.
- Neckers, J. W., and C. R. Walker.
1952. Field test for active sulfides in soil. Soil Sci. 74:467-470.
- Norman, A. G.
1968. Advances in agronomy. vol. 20. Academic Press, New York.
- Olson, G. W.
1974. Land classifications in search agriculture. vol. 4, No. 7. Cornell Agric. Exp. Str., Ithaca, N.Y.
- Papadopoulos, S. S., J. D. Bredehoeft, and H. C. Hilton, Jr.
1973. On the analysis of 'slug test' data. Water Resour. Res. 9(4):1087-1089.
- Peters, W. C.
1978. Exploration, mining, and geology. 696 p. John Wiley & Sons, New York.
- Pinder, G. F., and J. F. Jones.
1969. Determination of the ground water component of peak discharge from chemistry of total runoff. Water Resour. Res. 5(2):438-445.
- Pirson, S. J.
1970. Geologic well log analysis. 370 p. Gulf Publ. Co., Houston, Tex.
- Power, J. F., and F. M. Sandoval.
1976. Effect of sampling method on results of chemical analysis of overburden samples. Mining Congr. J. 62(4):37-42.
- Prabhakarannair, K. P., and A. Cottenie.
1969. A study of the plant uptake in relation to changes in extractable amounts of native trace elements from soil profiles using the Neubauer seedling method. Soil Sci. 108:74-78.
- Rainwater, F. H., and L. L. Thatcher.
1960. Methods for collection and analysis of water samples. U.S. Geol. Surv. Water Sup. Pap. 1454, 301 p.

- Rowe, J. W., and D. B. McWhorter.
1978. Salt loading in disturbed watershed field study. *J. Environ. Engr. Div.*, ASCE, 104:323-338.
- Sandoval, F. M., and J. F. Power.
1978. Laboratory methods recommended for chemical analysis of mined-land spoils and overburden in western United States. *USDA Agric. Handb. 525*. Washington, D.C.
- Schumm, S. A.
1977. The fluvial system. 338 p. John Wiley & Sons, Inc., New York.
- Scott, J. H., and B. L. Tibbets.
1974. Well log techniques for mineral deposit evaluation: a review. U.S. Bureau of Mines, Information Circular B627, 45 p.
- Serota, S., and R. A. Jennings.
1957. Undisturbed sampling techniques for sands and very soft clays. *Proc. 4th Int. Conf. Soil Mech. Foundation Engr.* 1:245-248.
- Simons, D. B., and Senturk.
1977. Sediment transport technology. 807 p. Water Resources Publications, Fort Collins, Colo.
- Singh, M., and N. Singh.
1978. Selenium toxicity in plants and its detoxification by phosphorus. *Soil Sci.* 126:255-262.
- Smith, R. M., W. E. Grube, Jr., T. Arkel, Jr., and Andrew Sobek.
1974. Mine spoil potentials for soil and water quality. *Environ. Protec. Tech. Series*, EPA-670/2-74-070. 303 p. National Environmental Research Center, Cincinnati, Ohio.
- Smith, R. M., A. A. Sobek, T., Arkle, Jr., J. C. Sencindiver and J. R. Freeman.
1976. Extensive overburden potentials for soil and water quality. *Environ. Protec. Tech. Series*, EPA-600/2-76-184. National Environmental Research Center, Cincinnati, Ohio.
- Soil conservation Service.
1977a. Universal soil loss equation. *Tech. Note No. 50*, Denver, Colo.
1977b. Guide for predicting wind erosion on nonirrigated croplands of Colorado. *Tech. Note, Agronomy No. 53*, Denver, Colo.
1977c. Preliminary guidance for estimating erosion on areas disturbed by surface mining activities in the interior western United States. *U.S. Environ. Protec. Agency, Region VIII*, EPA-908/4-77-005, Denver, Colo.
- Soil Survey Staff.
1951. Soil survey manual. *USDA Agric. Handb. No. 18*. Soil Conservation Service, Washington, D.C.
- Soil Survey Staff.
1975. Soil taxonomy. *USDA Agric. Handb. No. 436*. Soil Conservation Service, Washington, D.C.
- Soil Survey Staff.
1975. Revised soil survey manual, review draft. *USDA Soil Conservation Service*, Washington, D.C.
- Stallman, R. W.
1971. Aquifer-test, design, observation and data analysis. *Techniques of water-resources investigations of the U.S. Geological Survey*. Book 3, Ch. B-1, 26 p.
- Stanford, G., and S. J. Smith.
1978. Oxidative release of potentially mineralizable soil nitrogen by acid permanganate extraction. *Soil Sci.* 126:210-218.
- Swaine, D. J.
1955. The trace element content of soils. *Tech. Commun. Bur. Soil Sci.* No. 48. 157 p. Horpenden, Great Britain.

- Telford, W. M., L. P. Geldart, R. E. Sheriff, and D. A. Keys.
1977. Applied geophysics. 860 p. Cambridge Univ. Press, New York.
- Thorne, Ecological Institute.
1975. Report on study identifying environmental issues and impacts of potential concern in the Fort Union Region arising from the development of a coal conversion complex. Prepared for Denver Research Institute.
- Tixier, M. P., and R. P. Alger.
1970. Log evaluation of nonmetallic mineral deposits. Geophysics 35:124-142.
- Turekian, K. K., and K. H. Wedpohly.
1961. Distribution of the elements in some major units of the earth's crust. Geol. Soc. Am. Bull. 72:175-192.
- U.S. Bureau of Reclamation.
1974. Earth manual. Denver, Colo.
- U.S. Dep. of Interior.
1977. Ground water manual. 480 p. Bureau of Reclamation, Engr. Res. Center, Denver, Colo.
- U.S. Environmental Protection Agency.
1976. Quality criteria for water. EPA-440/9-76-023, 501 p. Washington, D.C.
- U.S. Salinity Laboratory Staff.
1954. Diagnosis and improvement of saline and alkali soils. USDA Agric. Handb. No. 60. Washington, D.C.
- Van Voast, W.
1978. Personal communication.
- Visocky, A. P.
1970. Estimating the ground water component of storm runoff by the electrical conductivity method. Ground Water 8(2):5-10.
- Walton, W. C.
1962. Selected analytical methods for well and aquifer evaluation. Illinois State Water Survey Bull. No. 49.
- Walton W. C.
1970. Ground water resource evaluation. 664 p. McGraw-Hill, Inc., New York.
- Weller, J. M.
1960. Stratigraphic principles and practice. 725 p. Harper & Bros., New York.
- Wilson, G.
1969. The square tube in subsurface exploration. In Conference on In-situ Investigations in Soils and Rocks. p. 135-143. British Geotechnical Society, London.
- Winczewski, L. M.
1978. Final report of the stratigraphic computer model of the coal-bearing formations: phases one and two. 178 p. Engineering Experiment Station, Univ. N.D., Grand Forks.
- Winczewski, L. M.
1979. Progress report of the stratigraphic computer model of the coal-bearing formations: phase three. Bull. No. 79-01-EES-02, 30 p. Engineering Experiment Station, Univ. of N.D., Grand Forks.

- Winczewski, L. M.
1979. Progress report UND 79-1: proposed GEOSTOR applications within SEAM's mine planning system. Bull. No. 79-01-EES-03, 14 p. Engineering Experiment Station, Univ. of N.D., Grand Forks.
- Winterkorn, H. F., and H. Y. Fang.
1975. Foundation engineering handbook. Van Nostrand Reinhold Co., New York.
- Wit, K. E.
1962. An apparatus for coring undisturbed samples in deep boreholes. Tech. Bull. 28. Wageningen, The Netherlands.
- Wood, D. N. (ed.).
1973. Uses of earth science literature. 495 p. Butterworth & Co., London.
- Zernitz, E. R.
1932. Drainage patterns and their significance J. Geol. 40:498-521.