## REFERENCES

Ahlfeld, D.P., Barlow, P.M., and Mulligan, A.E., 2005, GWM—A ground-water management process for the U.S. Geological Survey modular ground-water model (MODFLOW–2000): U.S. Geological Survey Open-File Report 2005–1072, 124 p.

American National Standards Institute, 1992, American national standard for programming language—Fortran— Extended, X3.198-1992, 369 p.

Collins, R.E., 1961, Flow of fluids through porous materials: New York, Reinhold Publishing Corp., 270 p.

Crichlow, H.B., 1977, Modern reservoir engineering—A simulation approach: Englewood Cliffs, N.J., Prentice Hall Inc., 354 p.

Goode, D.J., and Appel, C.A., 1992, Finite-difference interblock transmissivity for unconfined aquifers and for aquifers having smoothly varying transmissivity: U.S. Geological Survey Water-Resources Investigations Report 92–4124, 79 p.

Halford, K.J., and Hanson, R.T., 2002, User guide for the drawdown-limited, Multi-Node Well (MNW) Package for the U.S. Geological Survey's modular three-dimensional finite-difference ground-water flow model, versions MODFLOW–96 and MODFLOW–2000: U.S. Geological Survey Open-File Report 02–293, 33 p.

Harbaugh, A.W., 1995, Direct solution package based on alternating diagonal ordering for the U.S. Geological Survey modular finite-difference ground-water flow model: U.S. Geological Survey Open-File Report 95–288, 46 p.

Harbaugh, A.W. and McDonald, M.G., 1996a, User's documentation for MODFLOW–96, an update to the U.S. Geological Survey modular finite-difference ground-water flow model: U.S. Geological Survey Open-File Report 96–485, 56 p.

Harbaugh, A.W. and McDonald, M.G., 1996b, Programmer's documentation for MODFLOW–96, an update to the U.S. Geological Survey modular finite-difference ground-water flow model: U.S. Geological Survey Open-File Report 96–486, 220 p.

Harbaugh, A.W., Banta, E.R., Hill, M.C., and McDonald, M.G., 2000, MODFLOW–2000, the U.S. Geological Survey Modular Ground-Water Model—User guide to modularization concepts and the Ground-Water Flow Process: U.S. Geological Survey Open-File Report 00–92, 121 p.

Hill, M.C., 1990, Preconditioned conjugate-gradient 2 (PCG2), a computer program for solving ground-water flow equations: U.S. Geological Survey Water-Resources Investigations Report 90–4048, 43 p.

Hill, M.C., Banta, E.R., Harbaugh, A.W., and Anderman, E.R., 2000, MODFLOW–2000, the U.S. Geological Survey Modular Ground-Water Model—User guide to the observation, sensitivity, and parameter-estimation processes and three post-processing programs: U.S. Geological Survey Open-File Report 00–184, 210 p.

Hsieh, P.A., and Freckleton, J.R., 1993, Documentation of a computer program to simulate horizontal-flow barriers using the U.S. Geological Survey's modular three-dimensional finite-difference ground-water flow model: U.S. Geological Survey Open-File Report 92–477, 32 p.

Konikow, L.F., Goode, D.J., and Hornberger, G.Z., 1996, A three-dimensional method-of-characteristics solutetransport model (MOC3D): U.S. Geological Survey Water-Resources Investigations Report 96–4267, 87 p.

Kuiper, L.K., 1987, Computer program for solving groundwater flow equations by the preconditioned conjugate gradient method: U.S. Geological Survey Water-Resources Investigations Report 87–4091, 34 p.

Leake, S.A., and Prudic, D.E., 1991, Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model: U.S. Geological Survey Techniques of Water-Resources Investigations, book 6, chap. A2, 68 p.

McDonald, M.G. and Harbaugh, A.W., 1984, A modular three-dimensional finite-difference ground-water flow model: U.S. Geological Survey Open-File Report 83–875, 528 p.

McDonald, M.G. and Harbaugh, A.W., 1988, A modular three-dimensional finite-difference ground-water flow model: U.S. Geological Survey Techniques of Water-Resources Investigations, book 6, chap. A1, 586 p.

McDonald, M.G., Harbaugh, A.W., Orr, B.R., and Ackerman, D.J., 1992, A method of converting no-flow cells to variable-head cells for the U.S. Geological Survey modular finite-difference ground-water flow model: U.S. Geological Survey Open-File Report 91–536, 99 p.

Mehl, Steffen and Hill, M.C., 2004, Three-dimensional local grid refinement for block-centered finite-difference groundwater models using iteratively coupled shared nodes: a new method of interpolation and analysis of errors: Advances in Water Resources, v. 27, no. 9, p. 899–912.

Peaceman, D.W., 1977, Fundamentals of numerical reservoir simulation: New York, Elsevier Scientific Publishing Company, 176 p.

Prudic, D.E., 1989, Documentation of a computer program to simulate stream-aquifer relations using a modular, finitedifference, ground-water flow model: U.S. Geological Survey Open-File Report 88–729, 113 p.

Prudic, D.E., Konikow, L.F., and Banta, E.R., 2004, A new streamflow-routing (SFR1) package to simulate streamaquifer interaction with MODFLOW–2000: U.S. Geological Survey Open-File Report 2004–1042, 95 p.

Remson, Irwin, Hornberger, G.M., and Molz, F.J., 1971, Numerical methods in subsurface hydrology: New York, Wiley-Interscience, 389 p.

## Reference 2 MODFLOW-2005, The U.S. Geological Survey Modular Ground-Water Model

- Rushton, K.R., and Redshaw, S.C., 1979, Seepage and groundwater flow: Numerical analysis by analogue and digital methods: New York, John Wiley and Sons, 339 p.
- Trescott, P.C., 1975, Documentation of finite-difference model for simulation of three-dimensional groundwater flow: U.S. Geological Survey Open-File Report 75–438, 32 p.
- Trescott, P.C., and Larson, S.P., 1976, Supplement to Open-File Report 75–438, Documentation of finite-difference model for simulation of three-dimensional ground-water flow: U.S. Geological Survey Open-File Report 76–591, 21 p.
- Trescott, P.C., Pinder, G.F., and Larson, S.P., 1976, Finitedifference model for aquifer simulation in two dimensions with results of numerical experiments: U.S. Geological Survey Techniques of Water-Resources Investigations, book 7, chap. C1, 116 p.
- Weinstein, H.G., Stone, H.L., and Kwan, T.V., 1969, Iterative procedure for solution of systems of parabolic and elliptic equations in three dimensions: Industrial and Engineering Chemistry Fundamentals, v. 8, no. 2, p. 281–287.