

**THE PENNSYLVANIA STATE UNIVERSITY**  
**DEPARTMENT OF ENERGY AND GEO-ENVIRONMENTAL ENGINEERING**  
**GEOEE 408 - CONTAMINANT HYDROLOGY**  
**REFERENCE LIST**

The dispersed and rapidly evolving nature of the course material makes prescription of a single appropriate textbook impossible. **Many of the following texts are available in the EMS library. Texts in bold are on reserve.**

**BASIC HYDROGEOLOGY TEXTS**

1. R.A. Freeze and J.A. Cherry, Groundwater, Prentice Hall Inc., 1979. GB1003.2.F73
2. P.A. Domenico and F.W. Schwartz, Physical and Chemical Hydrogeology, John Wiley & Sons, 1990. GB1003.2.D66 1998
3. C.W. Fetter, Applied Hydrogeology, Macmillan College Publishing Co., 3rd Edition, 1994. GB1003.F47 2001
4. C.W. Fetter, Contaminant Hydrogeology, Macmillan College Publishing Co., 1993. TD426.F48 1999

**The following material is available in the Penn State Library System (call number given), or is reserved among class materials in the EMS library.**

**LEGAL ASPECTS**

1. C.C. Travis and E.L. Etnier, Groundwater Pollution - Environmental and Legal Problems, AAAS Selected Symposium, 95, Westview Press, Boulder, Colorado, 1984. **TD426.G7 1984**

**PHYSICAL HYDROLOGY**

1. J. Bear, Dynamics of Fluids in Porous Media, Chapter 9, pp. 439 - 478, Dover Publishing Co., 1988. **TA357.B38**
2. Cohen, R.M. and Mercer, J.W. DNAPL Site Investigation, Report to EPA, EPA/600/R-93/022, 1993.
3. Lee, C.-H. and Farmer, I., Fluid Flow in Discontinuous Rocks, Chapman Hall, 1993. **TA357.L437 1993**

**CONTAMINANT HYDROLOGY**

1. Pankow, J.F. and Cherry, J.A. Dense Chlorinated Solvents and other DNAPLs in Groundwater, Waterloo Press, Inc., 1996.
2. Palmer, C.M. Principles of Contaminant Hydrogeology, Lewis Publishing Inc., 1991. **TD426.P35 1991**
3. Lyman, W.J., Reidy, P.J. and B. Levy, Mobility and Degradation of Organic Contaminants in Subsurface Environments, C.K. Smoley Inc., 1992. **TD879.P4 L964 1992**
4. McCarthy, J.F. and Wobber, F.J., Manipulation of Groundwater Colloids for Environmental Restoration, Lewis Publishers, 1993. **TD426.M36 1993**
5. Apello, C.A.J and Postma, D., Geochemistry, Groundwater and Pollution, A.A. Balkema, Rotterdam, 1993. **QE515.A663 1993**
6. Knox, R.C, Sabatini, D.A. and Canter, L.W. Subsurface Transport and Fate Processes, Lewis Publishers, 1993. **TD878.K59 1993**

**MATEMATICAL MODELING**

1. Anderson, M.P. and Woessner, W.W., Applied Groundwater Modeling: Simulation of Flow and Advective Transport, Academic Press Inc, 1992. **GB1197.7.A53 1992**

**SITE INVESTIGATION**

1. Sara, M.N. Standard Handbook for Solid and Hazardous Waste Facility Assessments, Lewis Publishers, CRC Press, 1993. **TD795.7.S24 1994.**
2. Nielsen, D.M. Practical Handbook of Groundwater Monitoring, Lewis Publishers, 1991. **TD426.P73 1991**
3. Vogelsang, D. Environmental Geophysics: A Practical Guide, Springer Verlag, 1995.
4. Oweis, I.S. and Khera, R.J. Geotechnology of Waste Management, Butterworth and Co., 1990. **TD795.7.093 1990**
5. Ward, S.H. Geotechnical and Environmental Geophysics, Soc. of Exploration Geophysicists, 1990. Vol. 1. Review and Tutorial. Vol. 2. Environmental and Groundwater. Vol. 3. Geotechnical. **TA705.G426 1990**

## **AQUIFER TESTING**

1. Kruseman, G.P. and De Ridder, N.A. Analysis and Evaluation of Pumping Test Data International Institute for Land Reclamation and Improvement., 1983.
2. Dawson, K.J, and Istok, J.D. Aquifer Testing: Design and Analysis of Pumping and Slug Tests, Lewis Publishers, 1991. **GB1197.7.D39 1991**
3. Levy, B. ADEPT: A Program for Aquifer Data Evaluation. CHESS, Inc., 1994.

## **SITE REMEDIATION**

1. Grubb, D.G. and Sitar, N. Evaluation of Technologies for in-situ Cleanup of DNAPL Contaminated Sites, Report to EPA, EPA/600/R-94/120, 1994.
2. Calabrese, E.J. and Kostecki, P.T. Principles and Practices for Petroleum Contaminated Soils, Lewis Publishers, 1993. **TD879.P4 P75 1993**
3. Nyer, E.K. Groundwater Treatment Technology, Van Nostrad Reinhold, 1992. **TD426.N94.1992**
4. Rast, R.R. Environmental Remediation Estimating Methods, R.S. Means Publishers, 1997. **TD1052.R38 1997**