

[NOTE: Please feel free to use the most recent edition of textbooks referenced in this list](#)

[NOTA : Utilisez l'édition la plus récente des manuels cités dans cette liste.](#)

### **18-Env-A1 Principles of Environmental Engineering**

Ni-Bin Chang, Systems Analysis for Sustainable Engineering: Theory and Applications, published: October 26<sup>th</sup> 2010, ISBN: 9780071630054

Edward S. Rubin, Introduction to Engineering and the Environment, published: November 30<sup>th</sup> 2000, ISBN: 9780072354676

David Cornwell, Mackenzie Davis, Introduction to Environmental Engineering, McGraw-Hill Education, January 31<sup>st</sup> 2012 - 1056 pages.

Kiely, G., Environmental Engineering. McGraw Hill, 1996. ISBN: 007091272

### **18-Env-A2 Hydrology and Municipal Hydraulics Engineering**

N/A Water Environment Federation, N/A American Society of Civil Engineers/ Environmental & Water Resources Institute, Design of Urban Stormwater Controls, MOP 23, published: May 8<sup>th</sup> 2012 ISBN: 9780071704441

N/A Water Environment Federation, Prevention and Control of Sewer System Overflows, 3e - MOP FD-17, published: July 19<sup>th</sup> 2011, ISBN: 9780071738606

Wanielista, M., Kersten, R., and R. Eaglin.. Hydrology: Water Quantity and Quality Control. Wiley Interscience, 1996. ISBN: 0471072591

Zipparro, V.J., Davis' Handbook of Applied Hydraulics Fourth Edition. McGraw Hill, 1993. ISBN: 0070730024

Franzini, J., Freyberg, D., Linsley, R., and G. Tchobanoglous, Water Resources Engineering. McGraw Hill, 1991. ISBN: 0070380104

### **18-Env-A3 Geotechnical and Hydrogeological Engineering**

Cernica, J.N., Geotechnical Engineering: Soil Mechanics. Wiley Interscience, 1995. ISBN: 0471308846  
Fredlund, D.G. and H. Rahardjo., Soil Mechanics for Unsaturated Soils. Wiley Interscience, 1993. ISBN: 047185008X

Spitz, K. and J. Moreno., A Practical Guide to Groundwater and Solute Transport Modeling. Wiley Interscience, 1996. ISBN: 0471136875

LaMoreaux, P.E., and LaMoreaux, J.W., Environmental Hydrogeology. Lewis Publishers, 1997. ISBN: 0873719492

### **18-Env-A4 Water and Waste Water Engineering**

N/A Metcalf & Eddy, Inc., George Tchobanoglous, H. David Stensel, Ryujiro Tsuchihashi, Franklin L. Burton, Wastewater Engineering: Treatment and Resource Recovery, published: September 3<sup>rd</sup> 2013, ISBN: 9780073401188

N/A Water Environment Federation, Wastewater Treatment Process Modeling, Second Edition (MOP31), published: August 9<sup>th</sup> 2013, ISBN: 9780071798426

E.W. Bob Boulware, Alternative Water Sources and Wastewater Management, published: September 11<sup>th</sup> 2012, ISBN: 9780071719513

- N/A Water Environment Federation, Safety Health and Security in Wastewater Systems, Sixth Edition, MOP 1, published: September 5th 2012, ISBN: 9780071780933
- N/A American Water Works Association, N/A American Society of Civil Engineers, Water Treatment Plant Design, Fifth Edition, Published: July 10<sup>th</sup> 2012, ISBN: 9780071745727
- Casey, T.J., Unit Processes in Water and Wastewater Engineering. Wiley Interscience, 1997. ISBN: 0471966932
- Weber, W.J. and DiGiano, F.A. Process Dynamics in Environmental Systems. Wiley Interscience. ISBN: 0471017116
- McCarty, P., and Rittmann, B., Environmental Biotechnology: Principles and Applications. McGraw Hill, 2000. ISBN: 0072345535
- Metcalf & Eddy, Inc., Wastewater Engineering: Collection and Pumping of Wastewater. McGraw-Hill, 1981. ISBN: 007041680X
- Burton, F., Metcalf and Eddy Inc, Tchobanoglous, G., Wastewater Engineering: Treatment, Disposal and Reuse. McGraw Hill, 1991. ISBN: 0070416907
- Reed, S.C. and Crites, R.W., Natural Systems for Waste Management and Treatment. McGraw Hill, 1996. ISBN: 0071346627
- Eckenfelder, W.W. (Jr.), Industrial Water Pollution Control, (2<sup>nd</sup> Ed). McGraw-Hill, 1989. ISBN: 007018903X.
- Guyer, H.H., Industrial Processes and Waste Stream Management. Wiley Interscience, 1998. ISBN: 0471299847.
- Bishop, P., Pollution Prevention: Fundamentals and Practice. McGraw Hill, 2000. ISBN: 0073661473
- American Water Works Association, Water Treatment Plant Design, (3<sup>rd</sup> Ed.). McGraw-Hill, 1997. ISBN: 0070016437.
- American Water Works Association, Water Quality and Treatment: A Handbook of Community Water Supplies. McGraw Hill, 1998. ISBN: 0070015406
- Kawamura, S., Integrated Design and Operation of Water Treatment Facilities. Wiley and Sons, 2000. ISBN: 0471350931
- Nyer, E.K., Groundwater Treatment Technology, (2<sup>nd</sup> Ed.). Wiley Interscience, 1992. ISBN: 0471284149.
- R.L. Droste, Wiley, Theory and Practice of Water and Wastewater Treatment, 1997.

**18-Env-A5 Air Quality and Pollution Control Engineering**

- Alley, E.R, Stevens, L.B., and Cleland, W. L., Air Quality Control Handbook. McGraw-Hill, 1998. ISBN: 0-07-001411-6.
- Buonicore, A.J. (ed) and W.T. Davis (ed), Air Pollution Engineering Manual. Air & Waste Management Association. Wiley-Interscience, 1992. ISBN: 0-471-28441-6.

**18-Env-A6 Solid Waste Engineering and Management**

- Franchetti, Matthew J., Solid Waste Analysis and Minimization: A Systems Approach, May 27<sup>th</sup> 2009, ISBN: 9780071605243
- Bagchi, A., Design, Construction, and Monitoring of Landfills, (2<sup>nd</sup> Ed). Wiley Interscience, 1994. ISBN: 0-471-30681-9.
- Sharma, H.D., and Lewis, S.P., Waste Containment Systems, Waste Stabilization, and Landfills: Design and Evaluation. Wiley Interscience, 1994. ISBN: 0471575364.

**18-Env-B1 Environmental Assessment and Management Systems**

- Canter, L., Environmental Impact Assessment. McGraw Hill, 1996. ISBN: 0070097674
- Bartell, S., Kolluru, R., Pitblado, R., and Stricoff, S., Risk Assessment and Management Handbook: For Environmental, Health and Safety Professionals. McGraw Hill, 1996. ISBN: 0070359873
- Lerch, I. And Paleologos, E., Environmental Risk Analysis. McGraw Hill, 2001. ISBN: 0071372660
- McGraw, D., Environmental Auditing and Compliance Manual. Wiley Interscience, 1993. ISBN: 0471285854
- Woodside, G. Yturri, J. and Aurricho, P., ISO 14001 Implementation Manual. McGraw Hill, 1998. ISBN: 0070718520
- Curran, M., Environmental Life-Cycle Assessment. McGraw Hill, 1996. ISBN: 007015063X
- Dorf, R.C., Technology, Humans and Society: Toward a Sustainable World. Academic Press, 2001. ISBN: 0122210905
- Pearce, D. and Barbier, E., Blueprint for a Sustainable Economy. Earthscan Publications, 2000. ISBN: 1853835153

**18-Env-B2 Water Resources**

- Mays, L., Water Resources Handbook. McGraw Hill, 1996. ISBN: 0070411506
- Biswas, A., Water Resources: Environmental Planning, Management, and Development, McGraw Hill, 1997. ISBN 0070054835
- Ward, R.C., Loftis, J.C. and McBride, G.B., Design of Water Quality Monitoring Systems. Wiley Interscience, 1990. ISBN: 0471283886
- Veissman, W. and Hammer, M., Water Supply and Pollution Control (6th Ed.) Addison Wesley, 1998. ISBN: 032101460X

**18-Env-B3 Contaminant Transport**

- Fetter, C.W., Contaminant Hydrogeology. 2nd Ed., Prentice Hall, 1998.
- Schnoor, J.L., Environmental Modeling: Fate of Chemicals in Water, Air and Soil. John Wiley & Sons, New York, 1996
- Wark, K., C.F. Warner and W.T. Davis, Air Pollution: Its Origin and Control. Addison and Wesley, 1998.
- Zheng, C. and G. D. Bennett, Applied Contaminant Transport Modeling, Theory and Practice. Van Nostrand Reinhold, New York, 1995.
- Chapra, Steven, Surface Water Quality Modelling, December 31<sup>st</sup>, 2008, Waveland Press Inc., Long Grove Illinois, USA, ISBN: 978-1577666059.

**18-Env-B4 Site Assessment and Remediation**

- Ewels, J., Bioremediation Principles. McGraw Hill, 1998. ISBN: 0070577323
- Lerch, I. And Paleologos, E., Environmental Risk Analysis. McGraw Hill, 2001. ISBN: 0071372660
- Spitz, K. and Moreno, J., A Practical Guide to Groundwater and Solute Transport Modeling. Wiley Interscience, 1996. ISBN: 0471136875
- Cookson, J.T., Jr., Bioremediation Engineering - Design and Application. McGraw-Hill, New York, NY, 1995.
- Ott, W., Environmental Statistics and Data Analysis. Lewis Publishers, 1994. ISBN: 0873718488

**18-Env-B5 Industrial and Hazardous Waste Management**

Freeman, H.M., and Harris, E.F., Hazardous Waste Remediation – Innovative Treatment Technologies. Tecnomics Publishers Lancaster P.A., 1995.

Bagchi, A., Design, Construction, and Monitoring of Landfills, (2<sup>nd</sup> Ed). Wiley Interscience 1994. ISBN: 0-471-30681-9.

Sharma, H.D., and Lewis, S.P., Waste Containment Systems, Waste Stabilization, and Landfills: Design and Evaluation. Wiley Interscience, 1994. ISBN: 0471575364.

Bellandi, R. (ed), Hazardous Waste Site Remediation: The Engineer's Perspective. Wiley Interscience, 1995. ISBN: 0471286931.

**18-Env-B6 Agricultural Waste Management**

Unger, P.W., Managing Agricultural Residues. Lewis Pub., 1994. ISBN: 0-873-71730-9.

Loehr, Raymond, Pollution Control for Agriculture, ISBN: 978-0-12-455260-9.

**18-Env-B7 Environmental Sampling and Analysis**

Shugar, G.L., S.L. Bauman, D.A. Drum and J. Lauber, Environmental Field Testing and Analysis Ready Reference Handbook.

Montgomery, D C, Design and Analysis of Experiments. (5<sup>th</sup> Ed.), Wiley, New York, 2000.

Guidance Manual for Developing Site-Specific Soil Quality Remediation Objectives for Contaminated Sites in Canada. Canadian Council of Ministers of the Environment The National Contaminated Sites Remediation Program March 1996.

**18-Env-B8 Instrumentation and Process Control**

Nachtigal, C.L., Instrumentation and Control - Fundamentals and Applications. John Wiley & Sons, Inc., NY, 1990.

**18-Env-B9 Environmental Chemistry and Microbiology**

Evangelou, V.P. Environmental Soil and Water Chemistry: Principles and Application. Wiley Interscience, 1998. ISBN: 0471165158

Maier, R.M., Pepper, I. and Gerba, C. Environmental Microbiology. Academic Press, 2000. ISBN: 012497570-4

McCarty, P., Parker G. and C. Sawyer, Chemistry for Environmental Engineering. McGraw Hill, 1994. ISBN: 0070549788

Connell, D.W., Basic Concepts of Environmental Chemistry. Lewis Publishers, 1997. ISBN: 0873719980