

07-WRSE-A1, Water Quality & Management

George Tchobanoglous and E.D. Schroeder, Water Quality, Addison Wesley, 0-201-05433-7.

07-WRSE-A2, Engineering Hydrology

Viessman, Knapp, Lewis & Harbaugh, Introduction to Hydrology, 2nd Edition, Harper Row (ISBN # 0-7002-24971)

Ven Te Chow, David R. Maidment & Larry W. Mays, Applied Hydrology, McGraw-Hill, 1988, ISBN # 0-07-010810-2

Ray K. Linsley & Joseph B. Franzini, Water Resources Engineering, 3rd Edition, McGraw-Hill, 1979, ISBN # 0-07-037965-3

07-WRSE-A3, Soil Mechanics and Groundwater

Das, Braja M., Principles of Geotechnical Engineering, 5th edition; ISBN 0-534-38742-X

07-WRSE-A4, Hydraulics & Hydraulics Structures

R.L. Daugherty, J.B. Franzini and E.J. Finnermore, Fluid Mechanics with Engineering Applications, 8th Edition, McGraw-Hill, 1985 (omit chapters 5, 9, 16, and 17)

A suitable alternate text is:

V.L. Streeter, E.B. Wylie, Fluid Mechanics, SI Edition, McGraw-Hill, 1981 (omit chapter 6 on compressible flow) Note there may be a more recent version of this text if there is please use the latest edition.

07-WRSE-A5, Water Resources Planning & Systems

Water-Resources Engineering, 3rd edition, by David A. Chin; ISBN-13: 9780132833219

Civil and Environmental Systems Engineering, 2nd edition, by Charles S. Revelle, E. Earle Whitlatch, and Jeff R. Wright; ISBN-13: 9780130478221

The first text covers the water resources aspect (including economic considerations) of your course description, while the second text provides the systems analysis/multi-objective planning components of the course description.

07-WRSE-A6, Municipal Engineering

Viessman and Hammar, Water Supply and Pollution Control, 6th Edition, Harper Collins College Publishers ISBN # 0-321-01460-X, 1988

Brière, François G. (1999) Drinking-Water Distribution, Sewage, and Rainfall Collection, Presses internationale Polytechnique, École Polytechnique de Montréal. ISBN number: 2-55300-796-5

McGhee, T.J., Water Supply and Sewerage, 6th Edition, McGraw-Hill Publishing Co. ISBN # 0-07-060938-1, 1991

Metcalf & Eddy Inc., Wastewater Engineering: Collection and Pumping of Wastewater, McGraw-Hill Publishing Co. ISBN # 0-07-041680-X, 1981

07-WRSE-A7-1, Irrigation, Drainage, and Erosion Control

Schwab, G.O., D.D. Fangmeier, W.J. Elliot, and R.C. Fravert, Soil and Water Conservation Engineering, 4th Edition. J. Wiley & Sons, 1993.

Smedema & Rycroft, Land Drainage. Cornell U. Press, 1993.

James, L.G., Principles of Farm Irrigation System Design. Krieger Publishing Company, 1993.

07-WRSE-A7-2, Geomatics

Bossler J.D. (Editor), J.R. Jensen, R.B. McMaster, C. Rizos (Associate Editors) (2002). Manual of geospatial science and technology, Taylor & Francis, ISBN: 0748409246.

1- For the GPS part:

Hofmann-Wellenhof B., H. Lichtenegger, J. Collins (2001). GPS: theory and practice, 5th revised edition, Springer-Verlag, ISBN: 3211828397.

2- For the Remote Sensing part:

Jensen J.R. (2007). Remote sensing of the environment: an earth resource perspective, 2nd Edition, Pearson Prentice Hall, ISBN-10: 0131889508; ISBN-13: 978-0131889507

3- For the GIS part:

Bernhardsen T. (2002). Geographic Information Systems: an introduction, 3rd edition, John Wiley & Sons, New York, ISBN: 0471419680.

07-WRSE-B1, Geomorphology & Pleistocene Geology

Prime Text:

Ingham, A.E. Hydrography for the Surveyor and Engineer. 3rd edition. Wiley, 1994. ISBN 0632029439.

Supplementary Texts:

Bowditch, N., American Practical Navigator, Volumes I and II. Topographic Centre, United States Defence Mapping Agency, 1976. ISBN 0403089948.

de Jong, C.D., G. Lachapelle, S. Skone, and I. Elema, Hydrography. Delft University Press, 2002.

Appleyard, S.F. et al., Marine Electronic Navigation, 2nd edition. Routledge & Kegan Paul, 1988.

Forrester, W. D., Canadian Tidal Manual. Department of Fisheries and Oceans, Canadian Hydrographic Service, 1983. ISBN 0660113414.

07-WRSE-B3, Water Supply and Wastewater Treatment

Viessman and Hammar, Water Supply and Pollution Control, 6th Edition, Harper Collins College Publishers ISBN # 0-321-01460-X, 1988

R.L. Droste, Theory and Practice of Water and Wastewater Treatment, J. Wiley and Sons Inc. New York, N.Y., 1997

07-WRSE-B4, Open Channel Hydraulics

Chow, Ven Te (1959) Open-Channel Hydraulics. New York, McGraw-Hill, 1959. ISBN 00701077693

07-WRSE-B5, Limnology

- Wetzel, Robert G.,
 - Limnology, W. W. Saunders Company, 1975, ISBN 0-7216-9240-0.
 - Limnology, Saunders, 1983, ISBN - 10:0030579139; ISBN - 13:9780030579134
 - Limnology: Lake and River Ecosystems, 3rd Edition, Academic Press, ISBN - 10:0127447601; ISBN - 13:9780127447605
 - Please consider only chapters in either of these editions concerning:
 - Heat and Energy (Chapter 6 in 1st edition), and
 - Hydrodynamics (Chapter 7 in 1st Edition).
- Castendyk, D.N. and Eary, L.E., 2009. Mine Pit Lakes, characteristics, Predictive Modeling, and Sustainability; Management Technologies for Metal Mining Influenced Water, Volume 3; Society for Mining, Metallurgy and Exploration. “Mine Pit Lakes” for title page.
 - Please consider only the following chapters:
 - 4, Hydrologic Characteristics and Classifications of Pit Lakes

- 5, Stratification and Circulation of Pit Lakes
- 17, Flooding Pit Lakes with surface Water
- 21, Induced Meromixis.
- Jorgensen, S.E., 1980. Lake Management, Pergamon Press. ISBN0-08-022432-6.
 - Please consider only Chapter 4 in this book. “Lake Management” for title page and a copy of Chapter 4.

07-WRSE-B6, 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.

07-WRSE-B11, Principles of Environmental Engineering

David A. Cornwell, Mackenzie L. Davis, Introduction to Environmental Engineering.

McGraw-Hill Companies, October 2006 ISBN-13: 9780072424119, Edition Number: 4

Mackenzie Davis and Susan Masten, Principles of Environmental Engineering and Science, Product Dimensions, ISBN-13: 978-0073122359 ISBN-10: 0073122351, Publisher: McGraw-Hill

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

07-WRSE-B12, 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

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