

### **04-Geol-A1 Mineralogy and Petrology**

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Philpotts, Anthony R., Petrography of Igneous and Metamorphic Rocks. Prentice Hall, 2003.

Klein, C., The Manual of Mineral Science. 22<sup>nd</sup> Ed., John Wiley and Sons, New York, 2002.

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### **04-Geol-A2 Hydrogeology**

Schwartz, F.W., and H. Zhang, Fundamentals of Ground Water. Wiley, 2003.

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### **04-Geol-A3 Sedimentation and Stratigraphy**

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### **04-Geol-A4 Structural Geology**

van der Pluijm, Ben A., and Stephen Marshak, Earth Structure: An Introduction to Structural Geology and Tectonics. New York, W.W. Norton, 2004.

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### **04-Geol-A5 Rock Mechanics**

Hoek, Evert and John Bray, Rock Slope Engineering. London: Institution of Mining and Metallurgy, 1981.

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### **04-Geol-A6 Soil Mechanics**

Coduto, D.P., Component: Geotechnical Engineering: Principles and Practices. Prentice Hall, NJ, 1999.

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Sharma, P.V., Environmental and Engineering Geophysics. Cambridge University Press, 1997.

Reynolds, J.M., An Introduction to Applied and Environmental Geophysics. Wiley, 1997.

Kearey, P., M. Brooks and I. Hill, An Introduction to Geophysical Exploration. 3<sup>rd</sup> Ed., Blackwell Science, 2002.

**04-Geol-B1 Contaminant Hydrogeology**

Fetter, C.W., Contaminant Hydrogeology. 2<sup>nd</sup> Ed., MacMillan Publishing Co., New York, 1999.

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**04-Geol-B2 Terrain Analysis**

Mollard, J.D. and J.R. Janes, Airphoto Interpretation and the Canadian Landscape. Energy, Mines and Resources Canada, 1984. ISBN 0-660-11591-3

Required Materials for Examination:

- 1 pocket stereoscope + plates from Mollard and Janes (1984) p. 187-399 only.

**04-Geol-B3 Site Investigation**

Canadian Geotechnical Society, Canadian Foundation Engineering Manual. 3<sup>rd</sup> Ed. Canadian Geotechnical Society, Technical Committee on Foundations, BiTech Publishers Ltd., Richmond, British Columbia, 1992.

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Trenhaile, AS, Geomorphology: A Canadian Perspective. Oxford University Press, 1998. ISBN 0-19-541277-X

Fulton, RJ, (ed.), Quaternary Geology of Canada and Greenland. Geological Survey of Canada, 1989. ISBN 0-660-13114-5 (Any one section of Part I (Sect. 1-5), and Part II: Sect. 11, 12.)

**04-Geol-B5 Environmental Geology**

**04-Geol-B6 Resource Geology**

**04-Geol-B6-1 Petroleum Deposits**

Gluyas, J.G. and R.E Swarbrick, Petroleum Geoscience. Blackwell, 2004.

Hunt, J.M., Petroleum Geochemistry and Geology. 2nd Edition, Freeman, New York, 1996.

**04-Geol-B6-2 Coal Deposits**

**04-Geol-B6-3 Metallic and Industrial Mineral Deposits**

Evans, Anthony M., Ore Geology and Industrial Minerals - An Introduction. 3<sup>rd</sup> Ed., Blackwell Science, Oxford, UK, 1993.

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Dake, L.P., The Practice of Reservoir Engineering. Elsevier, 1994.

**04-Geol-B8 Resource Economics & Valuation**

Gentry, D.W. and T.J. O'Neill, Mine Investment Analysis. Society of Mining Engineers, American Institute of Mining, Metallurgical, and Petroleum Engineers, New York, 1984.

Rudenno, V., The Mining Valuation Handbook. Wrightbooks, Australia, 1998.

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Peters, W.C., Exploration and Mining Geology. 2<sup>nd</sup> Ed., John Wiley & Sons, Inc, 1987.

**04-Geol-B10 Geophysical Exploration Methods**

**04-Geol-B10-1 Gravity and Magnetic Fields**

Telford, W.M., L.P. Geldart, and R.E. Sheriff, Applied Geophysics. Cambridge University Press, 1990.

Sharma, P.V., Environmental and Engineering Geophysics. Cambridge University Press, 1997.

**04-Geol-B10-2 Electrical Methods**

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Sharma, P.V., Environmental and Engineering Geophysics. Cambridge University Press, 1997.

**04-Geol-B10-3    *Exploration Seismology***

Telford, W.M., L.P. Geldart, and R.E. Sheriff, Applied Geophysics. Cambridge University Press, 1990.

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