

# GEOF337 CURRICULUM

## Text book:

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Pratt & Whitehead, Rotating Hydraulics  
Springer 2008 (ISBN-13: 978-0-387-36639-5):

Chapter 1: 1.1, 1.2, 1.4, 1.6a, 1.7, 1.9  
Chapter 5: 5.1, 5.2, 5.3, 5.5

## From the following articles:

- Cushman-Roisin, B., L. Asplin, and H. Svendsen, 1994: Upwelling in broad fjords. *Continental Shelf Research*, 14 (15) pp 1701-1721.
- Gade, H.G. and E. Svendsen, 1978: Properties of the Robert R. Long Model of Estuarine Circulation in Fjords. In *Hydrodynamics of Estuaries and Fjords*, edited by J.C.J. Nihoul, Elsevier Scientific Publishing Company, Amsterdam. Pp. 423-437.
- Gade, H.G. and A. Edwards, 1980: Deep Water Renewal in Fjords. In *Fjord Oceanography*, edited by H.J. Freeland, D.M. Farmer, and C.D. Levings, Plenum Publishing Corp., New York. Pp. 453-489.
- Klinck, J. M., J. O'Brien, and H. Svendsen, 1982: A simple model of fjord and coastal circulation interaction. *J. Phys. Oceanogr.* 11, 1612-1626
- Stigebrandt, A. 1976: Vertical Diffusion Driven by Internal waves in a Sill Fjord. *Journal of Physical Oceanography*, 6 (4), pp. 486-495.
- Stigebrandt, A. 1980: Some aspects of tidal interaction with fjord constrictions. *Estuarine, Coastal and Shelf Science*, 11, pp 151-166.
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- Stigebrandt, A. and J. Aure 1989. Vertical mixing in basin waters of fjords. *J. Phys. Oceanogr.*, 19(7): 917-926.
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## Other relevant reading:

- Gade, H.G., 1986: Features of Fjord and Ocean Interaction. In *Nordic Seas*. Pp 183-189.
- McClimans, T.A., 1978: On the Energetics of Tidal Inlets to Landlocked Fjords. *Marine Science Communications*, 4(2), pp. 121-137.
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- Staalstrøm, A., E. Aas and B. Liljebladh 2012. Propagation and dissipation of internal tides in the Oslofjord. *Ocean Sci.*, 8(4): 525-543, doi: 10.5194/os-8-525-2012.
- Stigebrandt, A. 2012: Hydrodynamics and circulation of fjords. In *Encyclopedia of Lakes and Reservoirs*, Eds. Bengtsson, L., R.W. Herschy and R.W. Fairbridge, DOI: 10.1007/978-1-4020-4410-6.
- Farmer, D.M. and H.J. Freeland 1983. The physical oceanography of fjords. *Prog. Oceanogr.*, 12: 147-220.