

GEOF337 CURRICULUM

Text book:

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.
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- 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.
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- Stigebrandt, A. 1981: A Mechanism Governing the Estuarine Circulation in Deep, Strongly Stratified Fjords. *Estuarine, Coastal and Shelf Science*, 13, pp 197-211.
- 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.
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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.