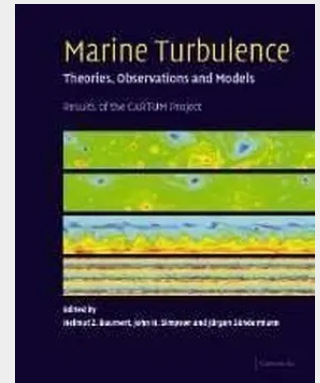


## Marine Turbulence

Theories, Observations, and Models

This 2005 book gives a comprehensive overview of measurement techniques and theories for marine turbulence and mixing processes. It describes the processes which control the mixing of greenhouse gases, nutrients, trace elements, and hazardous substances in our oceans and shelf seas - from local to planetary scales. These processes buffer climate changes and are centrally important for regional to global ecosystem dynamics. The publication also contains source codes of turbulence models and models of the upper-ocean mixing layer (COHERENS and GOTM), and observational data sets of turbulence characteristics or corresponding proxies of waters from all over the world. These can be found at [www.cambridge.org/9780521153720](http://www.cambridge.org/9780521153720). Written by a team of 53 world-leading experts, it represents a rich source of data and methods for students and scientists in oceanography, hydrology, limnology, and meteorology, as well as marine, naval and civil engineers.

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