

Readings for 13.998:

Principles of Oceanographic Instrumentation Systems - Sensors and Measurements

Williams & Irish Spring 2000

Data Analysis and Time Series

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Digitizing Effects

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Payne, R.E. and W. Smith, Spectra of Frequency Counting Digitization Errors, Deep-Sea Res., 27,583-589, 1980.

Gunnar I. Roden and James D. Irish, 1975. "Electronic Digitization and Sensor Response Effects on Salinity Computation from CTD Field Measurements," Jour. Phys. Ocean., 5(1),195-199.

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Mathews, D., "Choosing and Using a Temperature Sensor," *Sensors*, 17(1), 54-57, 2000.

Salinity

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System which was developed as a student project as the first internally recording CTD, and still in use nearly 15 years and two evolutions later. (Note with better planning we would be using this on our cruise.)

CTD Sensor Response

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A preprint of MODE paper. One of several papers at about the same time pointing out the salinity spiking problem due to sensor response time mismatches.

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