

ESTIMATION OF LONG WAVE POWER SPECTRA

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Long waves in harbours are often associated with wave grouping measured outside the harbour. In this paper an attempt is made to calculate the height of the long wave theoretically after obtaining the spectra for long waves from the short wave spectrum. The theoretical predictions are based on a Stokes expansion of the basic wave equations up to second order. The results are compared with actual results obtained from a Colombo Harbour model study.

References:

- Long period waves in natural wave trains
- N.E. Ottesen Hansen Report, 46,
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pp 13-24