

Abstract View

Volume 14, Issue 3 (March 1984)

Journal of Physical Oceanography Article: pp. 594–600 | <u>Abstract</u> | <u>PDF (331K)</u>

Statistical Properties of the Kinematics and Dynamics of Nonlinear Waves

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(Manuscript received June 16, 1983, in final form October 16, 1983) DOI: 10.1175/1520-0485(1984)014<0594:SPOTKA>2.0.CO;2

ABSTRACT

The probability density function and the first three statistical moments of velocity, acceleration and pressure of a gravity wave field, for points in the vicinity of still water level, are obtained taking into consideration the effects of free surface fluctuation and using the second-order Stokes wave model. These results reduce to those obtained previously by Tung using linear wave theory.

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