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Dening Li* (li@math.wvu.edu), Math Dept, 409B Armstrong Hall, West Virginia University,
Morgantown, WV 26506. *Integro-differential equations for ocean wave study.*

An integro-differential formulation is introduced in the study of ocean wave. For this new model, some of the surface wave properties are studied and compared with the usual 3-D model. Finally, the well-posedness of the new formulation is established. (Received August 31, 2009)