Dr. Valliboina Venkateswarlu
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Biography

Dr. Valliboina Venkateswarlu received his Ph.D. from the National Institute of Technology Karnataka Surathkal in 2020 in the department of Water Resources and Ocean Engineering. His research interest is in the broad area of wave structure interaction and porous media flow. His focus is on developing the new direct analytical relations for finding the wave scattering coefficients based on the analytical method (eigenfunction expansion method). He is currently engaged in developing the new analytical relations for two-layer ocean fluid problems in the presence of various types of breakwaters based on the linear potential flow theory.

Awards & Honors

1. State government Scholarship for completing the Intermediate (2007-2009).
2. The fee reimbursement for Bachelor's Degree (B.Tech 2009-2013).
3. AICTE Fellowship for Masters Degree based on GATE Score (M.Tech, 2013-2015).
4. MHRD Institution fellowship for Doctoral Degree (Ph.D. 2016-2020).
5. Best student paper award at NFiCE (30th Nov – 1st Dec 2018) organised by IIT Bombay.

Selected Publications

1. **V. Venkateswarlu** and D. Karmakar (2020). "Significance of seabed characteristics on wave transformation in the presence of stratified porous block". **Coastal Engineering Journal,** Taylor and Francis, DOI: 10.1080/21664250.2019.1676366 (SCI indexed Journal, IF = 2.016).

2. **V. Venkateswarlu** and D. Karmakar (2020). "Wave transformation due to barrier-rock porous structure placed on step-bottom", **Ships and Offshore Structures,** Taylor and Francis, DOI: 10.1080/17445302.2019.1694296 (SCI indexed Journal, IF = 1.763).

3. **V. Venkateswarlu** and D. Karmakar (2020). "Wave motion over stratified porous absorber combined with seaward vertical barrier". Proceedings of the Institution of Mechanical Engineers, Part M: **Journal for Engineering and Maritime Environment,** SAGE Publications, DOI: 10.1177/1475090220912643 (SCI indexed Journal, IF = 1.241).

4. **V. Venkateswarlu** and D. Karmakar (2020). "Gravity wave trapping by series of horizontally-stratified wave absorbers away from various seawall", **Journal of Offshore Mechanics and Arctic Engineering, Transactions of ASME,** 142(6) 061201-13, DOI: 10.1115/1.4047104 (SCI indexed Journal, IF= 1.133).

5. **V. Venkateswarlu,** K.M. Praveen and D. Karmakar (2020). "Surface gravity wave scattering by multiple energy absorbing structures of variable horizontal porosity", **Coastal Engineering Journal,** Taylor and Francis, DOI: 10.1080/21664250.2020.1794274 (SCI indexed Journal, IF = 2.016).