

ADVANCES IN MATHEMATICAL MODELLING OF A SUBMARINE

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Abstract: A new approach for the mathematical modelling of submarine dynamics at the periscope depth is presented. In the papers published so far wave disturbances are modelled by a simple affine form. The main disadvantage of such an approach is a poor correspondence with the real nature of submarine dynamics at the periscope depth. Using the new modelling approach this disadvantage is avoided. The results of the computer simulation are presented.

Keywords: Mathematical models, Stochastic modelling, Phase correction

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