

Wellknown American Scintists about Prof. T.Gvelesiani's Book:

"MATHEMATICAL MODELS OF TRANSIENT WAVES GENERATION IN PROBLEMS OF ENVIRONMENT". Tel-Aviv "Studio Fresco Pablshers". 2010 (in English)

The topic of transient wave oscillations in water basins is of interest to multiple fields and applications. As a practitioner of large scale computational fluid dynamics approaches to modern applications in transport physics, I can attest to fact that free surface wave phenomena are amongst the most difficult set of problems to solve numerically, even with advanced codes and modern computational power.

The approach undertaken by Professor Gvelesiani in this monograph is a classical yet powerful technique which allows for accurate calculations of large amplitude wave generation processes in practical applications. The text provides sufficient details for experts in the field to understand the physical and mathematical aspects of the solutions, yet also provides close form analytical solutions of practical value.

Indeed, I commend the author for summarizing such solutions in approximate form for the different cases considered, so that practitioners could directly compute key parameters of these set of difficult to computer problems.

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