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The numerical methods covered in this module introduce the use of mathematical methods to solve complex engineering problems with appropriate IT tools such as Matlab. Where appropriate the experiments include the application of Matlab and numerical methods. Module provider. Mechanical Engineering Sciences. Module Leader.

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At 1.713s, 1.718s, and 1.750s, bubbles are shown to develop at the tank ' s left side. All three numerical methods captured the formation of the bubbles without time delay. Experimental results were well monitored as seen by the high-speed videos in Fig. 20 (physical test). Download : Download high-res image (610KB) Download : Download full ...

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The three approaches for analyzing the added resistance in waves are experimental, numerical, and empirical. The experimental approach has high fidelity, but it is expensive and time-consuming. The advantage of the empirical formula is that the added resistance can be easily obtained, but the accuracy is not high. The numerical approach can be further divided into three methods: the slender-body, 3D panel, and computational fluid dynamics (CFD) methods.

Experimental and numerical studies on added resistance of ...

Numerical methods allow simulating various phenomena which are very difficult or even impossible to investigate using experimental techniques. An important aspect in this type of simulations is the flow hemodynamics, which is the analysis of the blood flow in terms of changes in velocity distribution, or the analysis of regions in which turbulence occurs.

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The experimental and numerical results of the three-point bending tests of the notched UHPC and UHPC-PVA beams can be summarized as follows: – In the experiments, the UHPC beams present a typical brittle failure mode, when loaded to a peak load, the crack propagates at extreme speed, and the residual strength is very small, which is almost zero.

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