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A wave maker for a circulating water channel and experiments for a high-speed boat in head waves

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Summary: A wave maker for a circulating water channel is newly designed and constructed and its wave making properties are reported. The characteristics obtained experimentally for the cases of 5 velocities and 4 frequencies are good for unsteady model test in head sea. Some following problems are pointed out. The amplitudes of the generated waves increase near the side walls and the distortion factors of the waves are large in some cases. Model test for a planning boat is also performed in regular head waves caused in the circulating water channel and the obtained results for the increase of resistance and the motions in waves are shown to be good. Some results are different with that for displacement type of ships, for example the added resistance may be in proportion to the amplitude of incident wave at high speeds. The unsteady wave pattern analysis can be performed more easily and in a shorter time compared with in a long tow tank.

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