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Experimental Visualization of Wave Making Phenomena around Small-Scale Ship Models in Circulating Water Channel

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Summary: In this paper, a visualization technique of wave making phenomena around small-scale ship models in circulating water channel is suggested. Wave patterns around the small model can be visualized by using a flat plate with longitudinal white and black stripes fixed on the bottom of the observing section in the circulating water channel lightened by a few electric lamps over the free surface. In front of a small model, however, ripples (capillary waves) are caused by the surface tension effect, which disturb the observation of clear Kelvin wave patterns around the model. In order to eliminate ripples, an effective experimental way to weaken the surface tension effect is adopted. Kelvin wave patterns in various conditions can be observed clearly by using the present experimental technique.

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