

## **An integral comparison theorem for cavitation diagrams**

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### **Abstract**

In this paper we prove a comparison theorem for a functional whose positiveness is a necessary condition for the solvability of the problem of designing a hydrofoil by a given cavitation diagram. Original Russian Text © N.I. Manina and A.Ya. Sultanov, 2011.

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### **Keywords**

Cavitation diagram, Comparison theorem, Hydrofoil, Pressure envelope, Solvability condition