

**APPLICATION OF ARITHMETIC FORMULAE
IN DETERMINING VOLUME OF SEA WATERS INFLOW
INTO ELBLĄSKA BAY – RIVER ELBLĄG – LAKE DRUZNO
HYDROLOGICAL SYSTEM**

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A b s t r a c t

This paper is part of broader studies aimed at finding several mathematical formulae allowing to determine the volume of inflow of salty or slightly salty waters into water reservoirs of the coastal zone of the Baltic sea with input data limited to only one chemical index. The main aim of the paper was an evaluation of the intensity of inflows of sea waters into a chosen coastal water body within the Polish zone of the southern Baltic. This evaluation was performed on the basis of calculations of the percentage share of sea water in the waters of the chosen coastal reservoir using the formula suggested by J. Bolalek, determined on the basis of the mixing index η introduced by Ovchinnikov.

Key words: lake Druzno, complete inflow, incomplete inflow, mixing index.