# ATTENTION!

# A NEW BOOK IS PUBLISHED

# PARAMETERS OF CURRENT'S KOHERENTUM

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This book is intended for scientific and engineering technical workers who are specialized in the sphere of hydraulic engineering, hydro energy, hydro melioration and also for the postgraduate students and masters of corresponding specialties for deep studying of hydro engineering course.

For the first time in the sphere of hydraulic were accepted by the authors the radius of inertia in torsion instead of hydraulic radius, which takes into account the secondary current's arising into the not round conduits and in the open channels (inside the movement of liquid).

The new parameter of koherentum of the flow gave the possibility of generalizing the number of Reynolds, Froude, Weber and so on. The parameters of the flow in the technical equipments (velocity, pressure, temperature, solidity) depend on co-ordinates as flow is heterogeneous.

In order to use one-dimensional theory in practical use it is necessary to mean of flows in profile. During experimental investigation of flows in the hydrotechnic equipments, machines and in other technical equipments, it is necessary according to the results of measuring to calculate some gross characteristics of flow, mass, expense, the number of movement, energy and so on. In this case it is necessary to mean correctly. The meaning of the flow is also used in the theoretical methods of calculation e.g. while using the methods of numerical current's modeling.

This short enumeration shows that the task of the right meaning of the flow is very important and rather common. It is known that the meaning is considered as the substitution of non-uniform current to some one-dimensional in condition to preserve more essential problem of current's property. In making any meaning one can't preserve all the property of current as during the meaning a part of information is lost. Such as current's koherentum. For the first time by the authors were used the parameters of koherentum current.

Inertia moment while torsion to define currents consumption inertia's radius while torsion for defining middle velocity of the current and inertia's moment while torsion for defining maximum of tension's tangent.

**The main parts of the book:**

I. Liquid's movement in the non round pipes with taking into account current's koerentum.

II. Velocity without pressure of water in the channels with taking account current's koherentum.

III. Running out of liquid from the slot with taking account current's koherentum.

If you want to acquire this book please contact: LTD "Gross Energy Group", Tel: +995 32 399160, E-mail: info@gegroup.org, URL: www.gegroup.org