
Feed detection of gear hydraulic machines

© B.P. Borisov

Bauman Moscow State Technical University, Moscow, 105005, Russia

Gear hydraulic machines made of two rotating wheels of any form, both the external and the internal gearing and any tooth profiles are considered. For derivation of formulas to determine instantaneous perfect flow volume of working chamber alteration is used. Instead of calculating the displacement itself it allows to get a result in a more general way. Some examples, that show the application of the method, are given.

Keywords: *gear hydraulic machines, gearing, working chamber, perfect flow, flow irregularity, displacement.*

Borisov B.P. (b. 1937) graduated from Bauman Moscow Higher Technical School in 1961. Ph.D., Assoc. Professor of the Hydromechanics, Hydrolic Machines and Hydropneumoautomatics Department of Bauman Moscow State Technical University. Author of 35 scientific papers, 12 of them are manuals. e-mail: e10bmstu@rambler.ru