



POST-DARCY FILTRATION THROUGH RIGID PERMEABLE MEDIA

**Iosif Bartha^{*}, Nicolae Marcoie, Daniel Toacă, Daniel Toma,
Victor Gabor, Aron Gabor Molnar, Adina Lupușoru**

*“Gheorghe Asachi” Technical University of Iasi, Faculty of Hydrotechnical Engineering, Geodesy and Environmental Engineering,
Department of Hydroamelioration and Environmental Protection, 65 Prof.dr.docent Dimitrie Mangeron Street, 700050, Iasi,
Romania*

Abstract

This paper presents the Post-Darcy filtration in different permeable media. The capillary tube model of filtration is used. The study is focused on the fluid's movement through uniform geometry glass spheres, river gravel and crushed rock. For all the filtration domain the unification of friction factor is achieved.

Key words: capillary tubes model, flow parameters, Post-Darcy filtration

Received: November, 2009; Revised: November, 2010; Accepted: November, 2010

^{*} Author to whom all correspondence should be addressed: i_bartha@yahoo.com