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developed in Chapters 3-5 are overdamped, engineers must deal with underdamped behavior. 5.3 You are working in a plant and need to estimate the delay for flow through a pipe. How can you evaluate the dead time? There are two obvious ways. 1. Measure the length of the pipe (L). Then, determine the velocity of the fluid in the pipe (v).

reactors with high Cr(VI) reduction (VR3 and VR6) showing accumulation of Cr(III) in the pores of the aquifer media. The other factor that contributed to decrease in flow is the growth of bacteria most of which remained trapped in the reactors. 5.2.3 Microbial (culture) dynamics in Vadose Systems Characteristics of Initial Consortium

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required. Chapter 4 is devoted entirely to this latter point: i. e. the proper inclusion of ratio-integral objectives in the application of the Maximum Principle to the unsteady state operation of continuous chemical processes. Finally, in chapter 5 an efficient iterative procedure for the

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