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Hydraulic Transients in Water Distribution Systems

Guest Editor:

Prof. Dr. Vicente S. Fuertes-Miquel

Department of Hydraulic Engineering and Environment, Polytechnic University of Valencia, 46022 Valencia, Spain

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Message from the Guest Editor

Hydraulic transients in water distribution systems (WDS) is a field of research that has advanced greatly in the last few decades. Hydraulic transients result from sudden changes in flow conditions in pipeline systems because of planned or accidental manoeuvres. Failures related to the effects of hydraulic transients can lead to major accidents and significant damage to pipeline systems. Nowadays, hydraulic transient analysis is a fundamental part of the design of water distribution systems.

In recent years, much progress has been made thanks to the development of computer science, numerical models and novel analysis techniques. This Special Issue focuses on all advancements related to hydraulic transients in water distribution systems, mathematical simulations, new analysis techniques, laboratory tests, protection elements and systems against water hammer, innovative strategies for controlling water hammer, hydraulic transients with trapped air, hydraulic transients with water column separation, the consequences and risks of hydraulic transients, etc. This Special Issue aims to collect novel research related to hydraulic transients in any subject.



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Special Issue



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Message from the Editor-in-Chief

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Water Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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