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Password for practical exercises:

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Software available:

Nr	Software	Description
1	UPSurge	Surge analysis in pipelines
2	UPThrust	Thrustblock design
3	AQUA Hydraulics	Life Cycle Costing Analysis of pipelines
4	GAWUP	Network and pipeline optimization
5	Vent-O-Mat CATT program	Air valve sizing and location software
6	EPANET	Network analysis software
7	EPASWMM	Storm and sewer modelling software
8*	Utility Programs for Drainage	Flood calculations, basic hydraulics and culverts
9	HEC-RAS	Free surface flow modelling, bridges, culverts dam break analysis (flood lines)

*Shareware

Relevant documents:

Nr	Document
1	Van Vuuren, S.J., Van Dijk, M. and Steenkamp J.N. (2004). Quantifying the influence of air on the capacity of large diameter water pipelines and developing provisional guidelines for effective de-aeration. Volume 1. WRC report no. 1177/1/04. Water Research Commission.
2	Van Vuuren, S.J., Van Dijk, M. and Steenkamp J.N. (2004). Quantifying the influence of air on the capacity of large diameter water pipelines and developing provisional guidelines for effective de-aeration: Provisional guidelines for the effective de-aeration of large diameter water pipelines. Volume 2. WRC report no. 1177/2/04. Water Research Commission.
3	Van Vuuren, S.J. and Van Dijk, M. (2006). <i>Factors influencing the friction loss in pipelines and the relationship between water quality, operating conditions and performance of liner systems</i> . WRC Report No 1269/01/06. Water Research Commission.
4	Van Vuuren, S.J., Van Rooyen, P.G., Van Zyl, J.E. and Van Dijk, M. (2005). <i>Application and conceptual development of genetic algorithms for optimization in the water industry</i> . WRC Report No 1388/1/05. Water Research Commission.
5	Kruger, E.J. (Editor), Rooseboom, A. Van Vuuren, S.J., Van Dijk, M., Jansen van Vuuren, A.M., Pienaar, W.J., Pienaar, P.A., James, G.M., Maastrecht, J. and Stipp, D.W. (2006). <i>Drainage Manual</i> . 5 th Fully revised. The South African National Roads Agency Ltd (SANRAL).
6	A.F. Barton, M.R. Wallis, J.E. Sargison, A. Buia and G.J. Walker. (2008). <i>Hydraulic Roughness of Biofouled Pipes, Biofilm Character, and Measured Improvements from Cleaning</i> . Journal Of Hydraulic Engineering. ASCE.