

Interactive comment on “A fast TDR-inversion technique for the reconstruction of spatial soil moisture content” by S. Schlaeger

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I appreciate the useful hints from anonymous referee #3 for the lack of grounding the presented work in the literature. The introduction will be revised to set this work into the context of other investigations. But many publications have been made on these basic principles (“general review on TDR” and “waveform modeling”) so I decided to add the following publications to my reference-list:

Chambarel, A., Ferry, E., Chanzy, A., Laurent, J.-P., Todoroff, P., and Ferrari, P.: TDR signal modeling using the electric line approach: model validation and signal inversion to retrieve soil moisture profile, TDR 2001, Evanston, Illinois, September 5-7, 2001.

Feng, W., Lin, C.P., Deschamps, R.J. and Drnevich, V.P.: Theoretical model of a multisection time domain reflectometry measurement system, Water Resources

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Research, 35, 8, 2321-2331, 1999.

Robinson, D.A., Jones, S.B., Wraith, J.M., Or, D., and Friedman, S.P.: A review of advances in dielectric and electrical conductivity measurement in soils using time domain reflectometry, *Vadose Zone Journal*, 2, 444-475, 2003.

Todoroff, P., and Luk, J.: Calculation of in situ soil water content profiles from TDR signal traces, *Measurement Science and Technology*, 12, 27-36, 2001.

Wraith, J.M., Robinson, D.A., Jones, S.B., and Long, D.S.: Spatially characterizing apparent electrical conductivity and water content of surface soils with time domain reflectometry, *Computers and Electronics in Agriculture*, 46, 239-261, 2005.

Interactive comment on *Hydrology and Earth System Sciences Discussions*, 2, 971, 2005.

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