

Dilatometry Kinetics Fitting Tool (DilotFit)

DilotFit is a standalone utility designed to fit diffusive kinetics by using dilatometry testing data.

Two input file options can be chosen by users:

1. Dilatometry strain experiment data
2. Volume fractions of phases data.

The transformation strain from austenite to second phases are needed. Prediction strain and prediction phases fraction are generated in DilotFit.

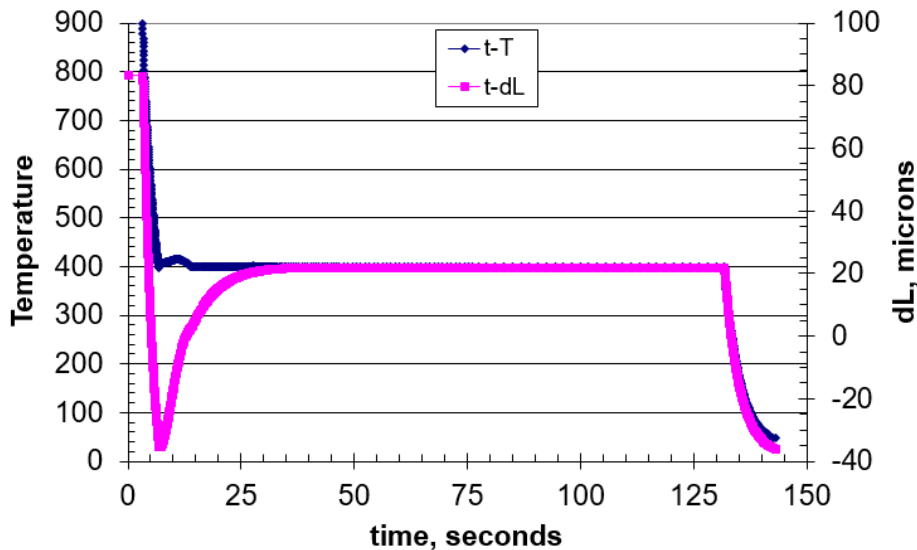
DilotFit is a powerful tool for Dante users to expand their material database.

Features of DilotFit

Powerful calculation control

DilotFit can optimize the fitting either in time or temperature domain and can also minimize the tangent difference between strain curves.

Dilatometry experiment data



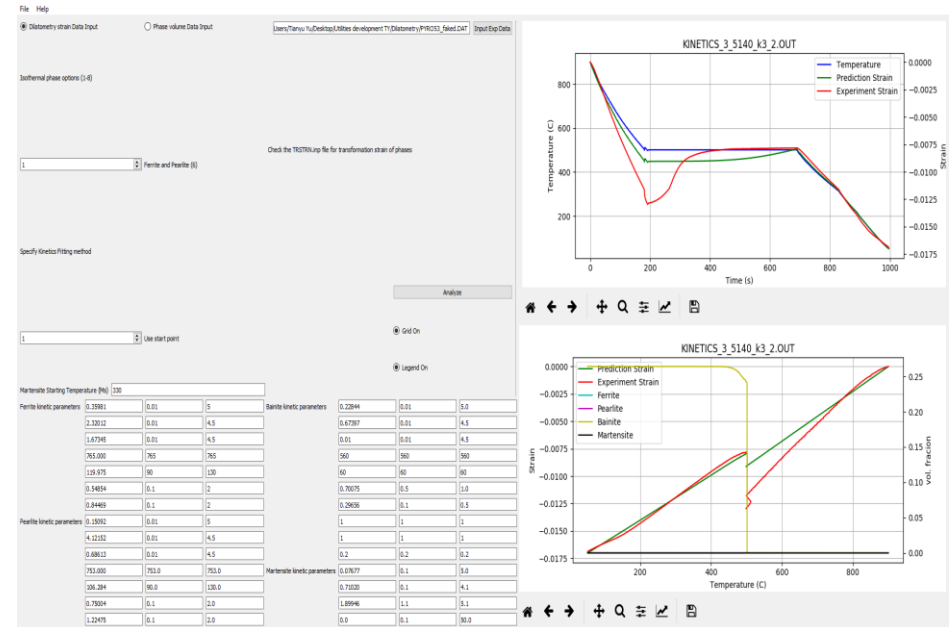
Example Dilatometry experiment data



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DilotFit Fitting for 5140 steels

DilotFit is able to accurately fit the strain and different second phases by using DANTE Dilatometry kinetics algorithm.



DilotFit fitting for 5140 steels