

Supplemental Material for “Alignment and Reassembly of Broken Specimen for Creep Ductility Measurements”

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This supplemental material provides additional data for our main work. Table 1 lists the deviations between true and determined object axis on synthetic and real data sets. Figure 1 plots pan angles for each captured step showing a cosine-shaped wave.

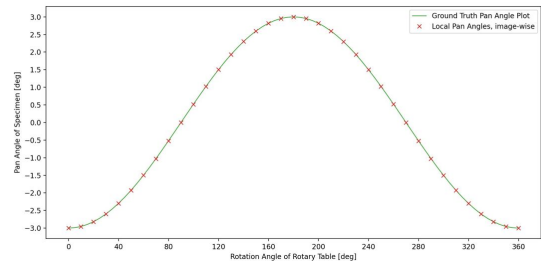


Figure 1: Comparison of local pan angles and true angle plot as a cosine with an amplitude gain of -3.0 for the ground truth.

Table 1: Deviation between true and determined object axis of a synthetic and real metal specimen.

Data	Synthetic Specimen		Metal Specimen		Data	Synthetic Specimen		Metal Specimen	
#Image	Average	Maximum	Average	Maximum	#Image	Average	Maximum	Average	Maximum
0	0.3700	2.0481	0.755366	3.99987	18	0.3692	2.0486	0.430022	2.99998
1	0.4109	1.0433	0.403375	3.997	19	0.4202	1.9542	0.164188	2.00099
2	0.4990	1.0792	0.268702	2.0	20	0.4806	1.0798	0.655911	4.00683
3	0.5424	1.0361	0.719335	3.00688	21	0.5357	1.0382	0.910388	4.99976
4	0.5238	1.0338	0.868641	6.9995	22	0.5368	1.0340	1.11643	8.99887
5	0.5310	1.0315	1.21591	5.98228	23	0.5328	1.0315	1.42541	7.01929
6	0.4505	1.0267	1.28538	6.01781	24	0.4134	0.9997	1.42617	6.99801
7	0.2561	0.9998	1.48071	5.99829	25	0.2530	0.9998	1.60429	6.99732
8	0.1005	1.0106	1.40123	5.02341	26	0.1049	0.9999	1.54055	6.02785
9	0.0340	1.0000	1.34203	6.02458	27	0.0232	1.0000	1.4862	6.99643
10	0.0432	1.0000	1.51413	6.02467	28	0.0432	1.0000	1.68249	7.0291
11	0.2419	1.0175	1.46585	8.96976	29	0.2433	1.0175	1.5491	7.96299
12	0.3775	1.0267	1.43271	6.9977	30	0.3487	0.9997	1.52135	8.99604
13	0.4076	1.0313	1.40115	5.99858	31	0.4090	1.0313	1.5607	6.97074
14	0.5073	1.0381	1.45531	15.9969	32	0.5069	1.0382	1.54309	13.9954