

DEPOSIT MATERIAL
paper JS0108

Table 5a. Comparison of the standard deviations of Φ_D and Φ_T as calculated using the new distribution (34) (on the left) and the Cochran distribution (4) (on the right) for the artificial structure A1.

A1							
middle of interval K	$\sigma(\Phi_D)$ ($^{\circ}$) per interval	$\sigma(\Phi_D)$ ($^{\circ}$) cumulative	cumulative nr. of doublets	middle of interval κ	$\sigma(\Phi_T)$ ($^{\circ}$) per interval	$\sigma(\Phi_T)$ ($^{\circ}$) cumulative	cumulative nr. of triplets
6.37	35.2	35.2	11	5.19	42.7	42.7	11
4.62	45.5	42.3	32	4.12	60.1	54.9	33
4.05	40.1	41.1	74	3.87	63.1	59.6	75
3.59	47.3	44.5	158	3.58	67.9	64.3	166
3.19	51.6	48.3	331	3.29	61.2	62.7	338
2.79	56.4	52.6	670	3.04	70.5	66.8	680
2.43	60.6	56.7	1335	2.78	65.2	66.0	1388
2.11	63.0	60.0	2720	2.53	71.4	68.7	2740
1.83	69.0	64.6	5424	2.31	75.6	72.2	5479
1.56	73.8	69.5	11220	2.08	76.6	74.5	11157
1.32	76.2	73.0	22694	1.86	78.6	76.6	22594
1.10	79.1	76.1	45069	1.66	80.8	78.7	44586
0.91	82.6	79.5	91691	1.45	83.0	80.9	90424
0.73	85.8	82.8	188378	1.27	85.3	83.2	183139
0.57	88.8	85.9	386547	1.09	87.8	85.5	368002
0.43	91.5	88.8	793164	0.92	90.0	87.8	735907
0.31	93.9	91.4	1621082	0.75	92.4	90.1	1465945
0.21	96.1	93.8	3290097	0.60	94.5	92.3	2912006
0.12	98.5	96.5	7413146	0.45	96.8	94.6	5777485
0.06	100.7	98.7	15508954	0.30	99.0	96.9	12014996
0.02	102.1	100.8	39951656	0.12	102.2	100.7	39951656

Table 5b Comparison of the standard deviations of Φ_D and Φ_T as calculated using the new distribution (34) (on the left) and the Cochran distribution (4) (on the right) for the artificial structure A1a.

A1a							
middle of interval K	$\sigma(\Phi_D)$ ($^{\circ}$) per interval	$\sigma(\Phi_D)$ ($^{\circ}$) cumulative	cumulative nr. of doublets	middle of interval κ	$\sigma(\Phi_T)$ ($^{\circ}$) per interval	$\sigma(\Phi_T)$ ($^{\circ}$) cumulative	cumulative nr. of triplets
12.34	51.5	51.5	11	15.04	96.8	96.8	13
8.16	45.8	47.9	32	12.12	90.9	93.1	36
6.81	44.0	45.7	73	10.39	98.7	96.1	77
5.92	42.4	44.0	155	8.73	91.0	93.5	159
5.20	56.0	50.6	322	7.49	87.3	90.4	324
4.54	54.0	52.4	656	6.27	78.8	84.7	653
3.94	53.6	53.0	1330	5.34	64.9	75.4	1316
3.36	61.5	57.4	2687	4.60	61.0	68.5	2665
2.86	66.2	62.0	5339	3.96	59.5	64.1	5358
2.41	70.0	66.1	10701	3.42	60.1	62.2	10663
2.01	72.6	69.4	21553	2.94	61.6	61.9	21324
1.64	76.4	73.1	43723	2.51	64.6	63.3	43089
1.31	80.1	76.7	87462	2.11	70.1	66.9	87549
1.01	84.1	80.5	178797	1.74	75.5	71.3	173997
0.75	87.7	84.3	363939	1.42	80.3	76.0	352688
0.53	91.0	87.8	740125	1.12	85.2	80.7	703690
0.35	94.1	91.0	1506835	0.84	90.1	85.6	1433226
0.21	96.9	94.1	3073836	0.60	94.3	90.1	2902693
0.11	99.7	97.3	6975171	0.39	98.3	94.4	5914018
0.04	102.1	100.3	18338476	0.22	101.5	98.2	12506866
0.01	115.6	107.9	39951656	0.07	103.5	101.9	39951656

Table 5c Comparison of the standard deviations of Φ_D and Φ_T as calculated using the new distribution (34) (on the left) and the Cochran distribution (4) (on the right) for the artificial structure A1b.

A1b							
middle of interval K	$\sigma(\Phi_D)$ ($^{\circ}$) per interval	$\sigma(\Phi_D)$ ($^{\circ}$) cumulative	cumulative nr. of doublets	middle of interval κ	$\sigma(\Phi_T)$ ($^{\circ}$) per interval	$\sigma(\Phi_T)$ ($^{\circ}$) cumulative	cumulative nr. of triplets
7.85	45.7	45.7	11	5.62	20.6	20.6	11
5.47	41.8	43.2	32	4.63	43.6	37.3	32
4.83	40.0	41.4	73	4.09	58.9	50.6	73
4.22	43.0	42.3	157	3.72	50.7	50.6	158
3.73	52.5	47.8	321	3.41	58.1	54.6	325
3.27	53.0	50.5	652	3.14	56.0	55.3	659
2.84	59.2	55.1	1326	2.87	61.6	58.5	1328
2.46	63.3	59.3	2665	2.61	65.0	61.9	2652
2.11	67.6	63.7	5483	2.36	67.1	64.5	5360
1.80	71.9	68.0	11010	2.12	70.5	67.6	10691
1.52	74.8	71.5	21971	1.90	73.6	70.7	21551
1.26	78.3	75.0	44813	1.68	76.7	73.8	43424
1.02	81.8	78.5	91002	1.48	80.2	77.1	87186
0.82	85.2	81.9	181270	1.29	83.0	80.1	173356
0.64	88.2	85.1	366357	1.10	86.0	83.1	346679
0.48	90.9	88.1	754056	0.93	89.0	86.2	703912
0.34	93.5	91.0	1588723	0.76	91.8	89.0	1412983
0.22	95.9	93.5	3223365	0.60	94.4	91.7	2803762
0.13	98.2	96.0	6739254	0.45	96.8	94.3	5659295
0.06	100.5	98.5	15339076	0.31	99.1	96.8	11314700
0.02	102.0	100.7	39951656	0.12	102.3	100.8	39951656

Table 5d Comparison of the standard deviations of Φ_D and Φ_T as calculated using the new distribution (34) (on the left) and the Cochran distribution (4) (on the right) for the artificial structure A1S₆.

A1S ₆							
middle of interval K	$\sigma(\Phi_D)$ (°) per interval	$\sigma(\Phi_D)$ (°) cumulative	cumulative nr. of doublets	middle of interval κ	$\sigma(\Phi_T)$ (°) per interval	$\sigma(\Phi_T)$ (°) cumulative	cumulative nr. of triplets
17.06	15.7	15.7	11	7.99	22.2	22.2	11
13.32	17.3	16.8	32	6.86	25.0	24.1	32
10.90	21.7	19.7	73	6.22	23.4	23.7	75
9.47	24.0	22.1	154	5.64	34.8	30.0	157
8.18	34.5	29.1	316	5.10	31.4	30.7	320
7.12	36.2	32.9	643	4.64	36.9	34.0	648
6.15	37.1	35.1	1307	4.23	43.0	38.8	1307
5.32	41.0	38.2	2614	3.83	45.0	42.0	2617
4.58	43.7	41.1	5251	3.44	44.3	43.2	5213
3.89	47.0	44.1	10534	3.09	51.4	47.5	10434
3.27	51.0	47.7	21037	2.75	53.6	50.6	20889
2.71	56.7	52.4	42308	2.43	57.7	54.3	41950
2.20	61.2	57.0	85641	2.12	62.3	58.4	83732
1.75	67.0	62.3	173393	1.83	66.9	62.8	168778
1.36	72.0	67.3	345403	1.56	71.7	67.4	336988
1.03	76.9	72.2	691734	1.31	76.6	72.2	672609
0.74	81.9	77.4	1422645	1.07	81.3	76.9	1360454
0.49	86.7	82.3	2922391	0.84	86.1	81.6	2708240
0.30	91.3	87.0	5993648	0.63	90.5	86.2	5430089
0.15	95.6	91.5	12203044	0.43	94.6	90.6	10988052
0.05	100.2	96.7	29341048	0.25	98.6	94.6	21955578
0.01	101.9	98.1	39951656	0.08	102.1	98.1	39951656

Table 5e Comparison of the standard deviations of Φ_D and Φ_T as calculated using the new distribution (34) (on the left) and the Cochran distribution (4) (on the right) for the artificial structure A1S₁₆.

A1S₁₆							
middle of interval K	$\sigma(\Phi_D)$ (°) per interval	$\sigma(\Phi_D)$ (°) cumulative	cumulative nr. of doublets	middle of interval κ	$\sigma(\Phi_T)$ (°) per interval	$\sigma(\Phi_T)$ (°) cumulative	cumulative nr. of triplets
10.60	28.7	28.7	11	7.57	18.1	18.1	11
8.32	45.3	40.4	32	6.35	57.3	48.2	34
7.46	38.2	39.2	73	5.75	39.0	43.3	77
6.57	37.5	38.3	154	5.28	53.6	48.9	159
5.82	38.5	38.4	317	4.82	45.3	47.1	327
5.17	44.8	41.8	646	4.41	42.7	44.9	658
4.58	46.0	43.9	1304	4.01	48.1	46.5	1316
3.98	48.6	46.3	2629	3.63	55.1	51.0	2670
3.45	52.8	49.7	5282	3.27	55.2	53.1	5312
2.95	56.7	53.4	10634	2.94	57.7	55.5	10729
2.48	60.7	57.2	21321	2.62	60.9	58.3	21446
2.06	64.7	61.1	42931	2.32	64.5	61.5	42865
1.68	69.1	65.3	86961	2.03	67.7	64.6	85688
1.34	73.9	69.8	175618	1.76	71.7	68.3	172904
1.04	78.2	74.2	354940	1.50	76.2	72.4	348829
0.78	82.7	78.6	715138	1.25	80.6	76.6	703112
0.56	86.6	82.7	1427296	1.02	85.0	81.0	1414566
0.38	90.5	86.8	2932717	0.80	89.2	85.2	2835764
0.23	94.1	90.6	5983558	0.60	93.0	89.2	5651024
0.11	97.8	94.6	13237730	0.40	96.7	93.1	11546122
0.03	101.7	99.4	39951656	0.16	101.5	99.2	39951656

Table 5f Comparison of the standard deviations of Φ_D and Φ_T as calculated using the new distribution (34) (on the left) and the Cochran distribution (4) (on the right) for the artificial structure AlFe₆.

AlFe ₆							
middle of interval K	$\sigma(\Phi_D)$ (°) per interval	$\sigma(\Phi_D)$ (°) cumulative	cumulative nr. of doublets	middle of interval κ	$\sigma(\Phi_T)$ (°) per interval	$\sigma(\Phi_T)$ (°) cumulative	cumulative nr. of triplets
23.14	9.9	9.9	11	10.35	23.4	23.4	11
18.83	17.3	15.2	32	8.90	18.5	20.2	33
15.55	16.9	16.2	73	8.29	19.3	19.7	75
13.24	24.8	21.2	154	7.65	25.3	22.8	156
11.39	24.1	22.7	317	7.01	22.4	22.6	318
9.80	26.6	24.8	643	6.43	32.4	28.0	650
8.41	31.6	28.4	1298	5.89	33.6	31.0	1309
7.20	31.6	30.1	2609	5.36	34.3	32.7	2628
6.13	34.3	32.3	5236	4.83	38.0	35.4	5251
5.17	37.9	35.2	10480	4.34	42.0	38.9	10482
4.30	41.9	38.7	20976	3.87	46.0	42.6	21000
3.53	46.2	42.6	42208	3.42	48.5	45.7	41861
2.84	52.0	47.6	84777	2.99	52.5	49.2	83777
2.25	58.1	53.1	169147	2.58	57.3	53.4	168076
1.73	64.1	58.9	342022	2.19	62.8	58.3	335779
1.29	70.3	64.9	685231	1.82	68.2	63.5	675277
0.92	76.6	71.1	1401356	1.49	74.3	69.1	1348049
0.62	82.4	77.0	2831116	1.17	80.2	74.9	2705038
0.38	88.1	82.8	5737599	0.88	86.1	80.7	5435305
0.19	93.7	88.8	12305280	0.61	91.7	86.4	10897300
0.07	99.0	94.4	26299154	0.35	97.0	91.9	21899586
0.01	101.4	96.8	39951656	0.12	101.5	96.4	39951656

Table 5g Comparison of the standard deviations of Φ_D and Φ_T as calculated using the new distribution (34) (on the left) and the Cochran distribution (4) (on the right) for the artificial structure $A1Fe_{16}$.

A1Fe ₁₆							
middle of interval K	$\sigma(\Phi_D)$ (°) per interval	$\sigma(\Phi_D)$ (°) cumulative	cumulative nr. of doublets	middle of interval κ	$\sigma(\Phi_T)$ (°) per interval	$\sigma(\Phi_T)$ (°) cumulative	cumulative nr. of triplets
6.73	20.9	20.9	11	7.80	23.2	23.2	11
5.37	24.7	23.5	34	6.66	41.7	36.6	33
4.79	24.4	24.0	75	6.18	41.9	39.6	74
4.37	36.1	31.1	162	5.76	55.2	48.5	157
3.95	31.8	31.5	328	5.36	52.8	50.8	323
3.55	36.1	33.9	662	4.95	48.0	49.3	664
3.17	35.9	34.9	1340	4.55	50.5	49.9	1326
2.78	40.7	38.0	2689	4.15	47.9	48.9	2658
2.41	42.6	40.4	5422	3.77	49.9	49.4	5314
2.06	49.2	45.0	10856	3.40	53.5	51.5	10714
1.74	54.0	49.7	21698	3.04	55.2	53.4	21589
1.45	57.5	53.8	43971	2.69	58.4	56.0	43110
1.19	63.0	58.6	88357	2.36	62.4	59.2	86008
0.95	68.1	63.7	181901	2.04	66.5	62.9	171481
0.73	73.6	68.9	372327	1.74	70.6	67.0	347698
0.55	78.7	74.0	753663	1.45	75.4	71.4	702438
0.39	83.4	78.8	1502356	1.18	80.5	76.1	1417954
0.26	87.9	83.6	3100711	0.93	85.5	80.9	2852011
0.16	92.1	88.0	6264732	0.69	90.2	85.7	5713432
0.08	96.7	92.9	13885552	0.47	94.7	90.3	11352770
0.02	100.9	98.2	39951656	0.19	100.9	98.0	39951656

Table 5h Comparison of the standard deviations of Φ_D and Φ_T as calculated using the new distribution (34) (on the left) and the Cochran distribution (4) (on the right) for the artificial structure A3.

A3							
middle of interval K	$\sigma(\Phi_D)$ ($^{\circ}$) per interval	$\sigma(\Phi_D)$ ($^{\circ}$) cumulative	cumulative nr. of doublets	middle of interval κ	$\sigma(\Phi_T)$ ($^{\circ}$) per interval	$\sigma(\Phi_T)$ ($^{\circ}$) cumulative	cumulative nr. of triplets
4.81	57.8	57.8	11	5.84	61.2	61.2	11
3.97	48.8	52.1	32	4.17	67.7	65.6	33
3.47	47.7	49.7	73	3.82	70.3	68.3	77
3.11	63.9	57.6	155	3.50	65.4	66.8	160
2.82	61.1	59.5	323	3.21	59.4	62.9	353
2.53	64.3	62.0	671	2.96	69.9	66.5	717
2.25	64.9	63.5	1361	2.72	69.7	68.2	1477
1.99	66.9	65.2	2745	2.50	73.1	70.6	2898
1.73	71.8	68.7	5638	2.29	73.5	72.1	5753
1.49	73.5	71.2	11466	2.07	76.5	74.3	11424
1.27	76.4	73.8	22875	1.86	78.2	76.3	23244
1.07	79.9	76.9	45865	1.66	80.8	78.6	46182
0.88	83.1	80.1	93820	1.46	82.9	80.8	93780
0.71	85.5	82.9	190673	1.27	85.2	83.0	186271
0.56	88.3	85.6	379615	1.08	87.8	85.5	379486
0.43	91.2	88.6	787235	0.91	90.0	87.8	757243
0.31	93.9	91.3	1615016	0.74	92.4	90.2	1565273
0.21	96.2	93.8	3272597	0.57	94.8	92.5	3164912
0.12	98.4	96.4	7350531	0.43	97.0	94.8	6258136
0.06	100.7	98.6	15361544	0.28	99.3	97.1	12963952
0.02	102.0	100.7	39951656	0.11	102.3	100.7	39951656

Table 5i Comparison of the standard deviations of Φ_D and Φ_T as calculated using the new distribution (34) (on the left) and the Cochran distribution (4) (on the right) for the artificial structure A3a.

A3a							
middle of interval K	$\sigma(\Phi_D)$ ($^{\circ}$) per interval	$\sigma(\Phi_D)$ ($^{\circ}$) cumulative	cumulative nr. of doublets	middle of interval κ	$\sigma(\Phi_T)$ ($^{\circ}$) per interval	$\sigma(\Phi_T)$ ($^{\circ}$) cumulative	cumulative nr. of triplets
8.64	39.3	39.3	11	15.58	96.4	96.4	11
6.88	39.3	39.3	32	12.17	98.4	97.7	32
6.18	38.4	38.8	74	9.80	86.3	91.3	75
5.53	45.0	42.2	158	8.38	96.3	94.0	160
4.87	48.7	45.6	326	7.20	91.7	92.8	327
4.29	55.1	50.6	658	6.10	75.2	84.3	667
3.77	61.4	56.3	1321	5.23	68.1	76.6	1334
3.28	60.3	58.3	2639	4.49	62.0	69.7	2670
2.83	64.0	61.3	5354	3.85	57.6	63.9	5359
2.40	69.8	65.7	10818	3.31	58.7	61.3	11016
2.01	74.1	70.0	21529	2.84	61.7	61.5	22477
1.65	77.5	73.9	43535	2.42	65.8	63.6	44914
1.32	81.1	77.6	87553	2.05	70.9	67.4	90073
1.02	84.3	81.1	177889	1.70	75.8	71.8	184411
0.76	87.5	84.4	358640	1.38	80.7	76.5	372597
0.54	90.7	87.6	721907	1.09	85.8	81.2	740248
0.36	93.9	91.0	1519495	0.82	90.5	86.1	1514332
0.21	97.0	94.1	3084833	0.59	94.6	90.5	3049284
0.11	99.8	97.3	6976230	0.38	98.5	94.6	6114937
0.04	102.1	100.3	18345060	0.21	101.6	98.2	12577692
0.01	115.6	107.9	39951656	0.07	103.5	101.9	39951656

Table 5j Comparison of the standard deviations of Φ_D and Φ_T as calculated using the new distribution (34) (on the left) and the Cochran distribution (4) (on the right) for the artificial structure A3b.

A3b							
middle of interval K	$\sigma(\Phi_D)$ ($^{\circ}$) per interval	$\sigma(\Phi_D)$ ($^{\circ}$) cumulative	cumulative nr. of doublets	middle of interval κ	$\sigma(\Phi_T)$ ($^{\circ}$) per interval	$\sigma(\Phi_T)$ ($^{\circ}$) cumulative	cumulative nr. of triplets
5.72	45.8	45.8	11	5.55	25.3	25.3	11
4.68	51.3	49.5	33	4.31	51.9	44.6	32
4.10	47.4	48.4	75	3.98	45.0	44.8	74
3.67	50.4	49.5	157	3.64	64.9	56.4	159
3.30	59.6	55.0	331	3.34	57.7	57.1	336
2.95	64.7	60.1	671	3.06	56.0	56.5	680
2.59	65.1	62.7	1361	2.80	62.6	59.6	1363
2.27	67.5	65.1	2701	2.56	65.1	62.4	2725
1.98	68.8	67.0	5454	2.32	68.3	65.5	5576
1.70	73.5	70.4	11108	2.09	71.4	68.4	10997
1.44	75.9	73.2	22102	1.87	74.1	71.3	21926
1.21	78.8	76.1	44994	1.66	77.9	74.7	43850
0.99	82.6	79.4	89872	1.46	80.1	77.5	89817
0.80	85.2	82.4	186231	1.27	83.9	80.8	179565
0.62	88.3	85.4	371604	1.08	86.6	83.7	358292
0.47	90.9	88.2	744010	0.91	89.3	86.5	717332
0.34	93.4	90.8	1490089	0.74	91.9	89.3	1439830
0.23	95.8	93.6	3241979	0.59	94.5	91.9	2893913
0.13	98.1	95.9	6766745	0.44	96.9	94.5	5838269
0.06	100.4	98.4	15310652	0.30	99.2	96.9	11796468
0.02	102.0	100.6	39951656	0.12	102.3	100.7	39951656

Table 5k Comparison of the standard deviations of Φ_D and Φ_T as calculated using the new distribution (34) (on the left) and the Cochran distribution (4) (on the right) for the artificial structure A3S₆.

A3S ₆							
middle of interval K	$\sigma(\Phi_D)$ ($^{\circ}$) per interval	$\sigma(\Phi_D)$ ($^{\circ}$) cumulative	cumulative nr. of doublets	middle of interval κ	$\sigma(\Phi_T)$ ($^{\circ}$) per interval	$\sigma(\Phi_T)$ ($^{\circ}$) cumulative	cumulative nr. of triplets
14.53	14.6	14.6	11	8.86	50.5	50.5	11
12.15	24.2	21.4	32	6.67	41.3	44.6	32
10.61	30.8	27.1	73	5.93	46.7	45.8	75
9.37	28.4	27.8	155	5.47	41.0	43.4	158
8.25	29.1	28.5	320	5.00	46.3	44.9	322
7.27	34.9	31.9	651	4.54	40.3	42.6	655
6.33	33.8	32.9	1317	4.15	42.2	42.4	1314
5.45	37.8	35.4	2645	3.78	43.8	43.1	2666
4.66	40.5	38.0	5270	3.41	45.4	44.3	5357
3.95	46.7	42.6	10566	3.05	50.5	47.5	10827
3.32	50.0	46.5	21183	2.72	53.0	50.3	21520
2.74	55.1	50.9	42313	2.40	56.8	53.7	43296
2.23	59.5	55.4	85083	2.10	61.8	57.9	86776
1.78	64.9	60.4	171669	1.81	66.1	62.2	174872
1.38	70.7	65.8	346301	1.54	71.2	66.9	353665
1.03	76.3	71.3	703090	1.28	76.2	71.6	701254
0.74	81.6	76.8	1437375	1.05	81.2	76.5	1393211
0.49	86.7	82.0	2935887	0.82	86.0	81.5	2836190
0.30	91.3	86.9	5992124	0.61	90.7	86.3	5771435
0.15	95.7	91.4	12161014	0.42	95.0	90.8	11665650
0.05	100.3	96.7	29307368	0.24	98.9	94.9	23123964
0.01	101.9	98.1	39951656	0.08	102.3	98.1	39951656

Table 5l Comparison of the standard deviations of Φ_D and Φ_T as calculated using the new distribution (34) (on the left) and the Cochran distribution (4) (on the right) for the artificial structure A3S₁₆.

A3S ₁₆							
middle of interval K	$\sigma(\Phi_D)$ ($^{\circ}$) per interval	$\sigma(\Phi_D)$ ($^{\circ}$) cumulative	cumulative nr. of doublets	middle of interval κ	$\sigma(\Phi_T)$ ($^{\circ}$) per interval	$\sigma(\Phi_T)$ ($^{\circ}$) cumulative	cumulative nr. of triplets
8.64	17.2	17.2	11	6.44	27.9	27.9	11
7.49	34.3	29.7	33	5.42	35.8	33.4	33
6.76	48.2	41.0	74	4.96	26.5	29.7	74
6.15	41.2	41.1	155	4.60	36.2	33.3	159
5.54	44.4	42.9	323	4.26	43.3	38.8	328
4.92	43.0	42.9	656	3.94	46.0	42.6	664
4.35	46.2	44.6	1309	3.64	48.5	45.7	1341
3.81	48.5	46.6	2626	3.35	53.2	49.6	2695
3.30	53.6	50.2	5270	3.06	52.9	51.3	5427
2.84	55.9	53.2	10663	2.77	56.8	54.1	10870
2.41	59.7	56.5	21330	2.49	61.1	57.7	21924
2.01	65.0	61.0	43181	2.22	64.7	61.3	43793
1.64	69.0	65.1	86395	1.96	68.5	65.0	87222
1.32	73.8	69.6	174427	1.71	72.2	68.6	173280
1.03	78.2	74.0	349133	1.47	76.4	72.6	346923
0.77	82.6	78.5	715618	1.23	80.7	76.8	699887
0.55	86.9	82.9	1454050	1.01	85.1	81.0	1396345
0.37	90.8	87.1	3046005	0.79	89.1	85.2	2833025
0.22	94.4	91.0	6356213	0.59	93.1	89.3	5712204
0.11	97.9	94.6	13194116	0.40	96.7	93.1	11459652
0.03	101.6	99.3	39951656	0.16	101.5	99.2	39951656

Table 5m Comparison of the standard deviations of Φ_D and Φ_T as calculated using the new distribution (34) (on the left) and the Cochran distribution (4) (on the right) for the artificial structure A3Fe₆.

A3Fe ₆							
middle of interval K	$\sigma(\Phi_D)$ (°) per interval	$\sigma(\Phi_D)$ (°) cumulative	cumulative nr. of doublets	middle of interval κ	$\sigma(\Phi_T)$ (°) per interval	$\sigma(\Phi_T)$ (°) cumulative	cumulative nr. of triplets
23.28	11.9	11.9	11	11.26	23.7	23.7	11
18.35	16.7	15.2	32	8.65	51.1	43.9	33
16.03	25.4	21.6	73	7.90	39.4	41.5	75
13.76	19.3	20.4	154	7.29	52.3	47.4	157
11.85	28.9	25.1	315	6.79	31.8	40.1	324
10.31	22.3	23.7	642	6.29	42.4	41.3	651
8.86	27.2	25.5	1300	5.80	37.1	39.2	1302
7.54	29.9	27.8	2599	5.29	39.4	39.3	2613
6.36	32.7	30.4	5227	4.79	40.4	39.9	5232
5.30	35.4	33.0	10469	4.32	41.3	40.6	10443
4.39	40.9	37.2	20916	3.86	44.7	42.7	21000
3.59	45.5	41.6	42094	3.41	47.8	45.3	41919
2.89	50.5	46.2	83964	2.98	51.7	48.6	84346
2.28	56.7	51.7	168984	2.57	56.6	52.8	168825
1.75	63.0	57.7	338385	2.18	61.5	57.3	336940
1.31	69.5	63.9	683260	1.82	67.7	62.7	675738
0.93	76.2	70.4	1382029	1.48	73.8	68.5	1351966
0.62	82.4	76.8	2840538	1.16	80.0	74.5	2720337
0.38	88.0	82.6	5728242	0.87	86.1	80.4	5421580
0.19	93.6	88.6	12240880	0.61	91.6	86.2	10901686
0.07	99.1	94.3	26191288	0.35	97.0	91.8	21871982
0.01	101.5	96.9	39951656	0.12	101.6	96.4	39951656

Table 5n Comparison of the standard deviations of Φ_D and Φ_T as calculated using the new distribution (34) (on the left) and the Cochran distribution (4) (on the right) for the artificial structure A3Fe₁₆.

A3Fe ₁₆							
middle of interval K	$\sigma(\Phi_D)$ (°) per interval	$\sigma(\Phi_D)$ (°) cumulative	cumulative nr. of doublets	middle of interval κ	$\sigma(\Phi_T)$ (°) per interval	$\sigma(\Phi_T)$ (°) cumulative	cumulative nr. of triplets
10.31	14.5	14.5	11	7.80	23.8	23.8	11
8.39	24.5	21.6	32	6.16	19.0	20.8	32
7.46	47.0	38.3	75	5.71	23.9	22.6	74
6.78	30.5	34.4	159	5.31	42.7	34.6	156
6.12	41.8	38.3	325	4.93	37.7	36.3	324
5.41	41.7	40.1	658	4.56	41.8	39.2	663
4.78	42.7	41.4	1321	4.24	46.2	42.8	1326
4.18	44.7	43.1	2644	3.90	44.7	43.8	2654
3.62	50.3	46.9	5288	3.57	50.4	47.3	5382
3.10	52.8	49.9	10589	3.24	52.4	49.9	10714
2.62	56.5	53.4	21314	2.92	57.4	53.8	21697
2.18	61.9	57.8	42560	2.60	60.2	57.1	43214
1.78	66.4	62.3	86315	2.30	65.2	61.3	86980
1.42	71.4	67.1	175226	2.00	69.2	65.3	172724
1.10	76.5	72.0	356495	1.71	73.5	69.6	351717
0.83	81.1	76.7	712267	1.43	78.4	74.2	704984
0.59	85.6	81.4	1469273	1.17	83.2	78.8	1402245
0.40	89.7	85.6	2912800	0.92	87.7	83.4	2834432
0.24	93.4	89.7	6008981	0.68	91.9	87.8	5705589
0.12	97.2	93.7	12507526	0.47	95.9	92.0	11445500
0.04	101.4	99.1	39951656	0.18	101.3	98.7	39951656