

Comitato Nazionale Energia Nucleare

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**FAST REACTOR CROSS SECTION
LIBRARIES UP-DATING:
ORIGINAL AND ADJUSTED ENDF/B-III
DATA IN BONDARENKO FORMAT**

M. SALVATORES

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1. - INTRODUCTION

Du musst verstehen!
Aus Eins mach zehn,
Und Zwei lass gehn,
Und Drei mach gleich,
So bist du reich.
Verlier die Vier!
Aus Fünf und Sechs -
So sagt die Hex -
Mach ists vollbracht:
Und Neun ist Eins,
Und Zehn ist Keins.
Das ist das Hexen - Einmaleins! /1/

It is getting more and more difficult for reactor physicists and designers to identify the hidden "sigillum Saturni" in the huge collections of data for neutronics calculations which pile-up year after year. Thus, there is strong necessity of both frequent critical revisions of the work already done and simply defined up-datings, as far as possible in the framework of standard processing procedures.

In this report we will be mainly concerned with revisions and up-datings, based on ENDF/B version 3, of fast reactor neutron cross sections libraries in the so-called "Bondarenko" format /2/.

As a background for the present work a number of basic choices were outlined in a review report /3/, and reference to previous work details can be found in /4/.

To summarize the present situation we can briefly recall:

- a) the ENDF/B data and file format were generally adopted at CNEA /3/;
- b) it was suggested /3/ a methodology of coupled use of both the ultrafine groups /3/ and the self-shielding factors /2/ philosophies;
- c) a number of codes were implemented and in particular the ETOX-IDX /6, 7/ codes system (see paragraph 2), for handling the Bondarenko format;
- d) for the best use of the methodology mentioned in b), a common energy group structure was adopted, based on half lethargy widths, for both libraries based on self-shielding factors or ultrafine groups;
- e) cross section adjustments in the energy structure adopted and for the most recent ENDF/B data, were derived for a few relevant isotopes from a correlation with high-accuracy benchmark integral experiments (see paragraph 3);
- f) the interfaces previously developed /4/ with neutronics codes are still used, but a new code (IDX) is introduced to process cross section data, beside the PRAVDA code /3/.

2. - USE OF THE ETOX CODE AND THE GENERATION OF MULTIGROUP CROSS SECTIONS.

A number of minor modifications were necessary to run successfully the ETOX-3 code /7/. The modifications are mainly related to the increased dimension of version 3 of ENDF/B with respect to previous versions. In particular, the U-235 resolved resonances data and the number of points for the iron σ_t required special treatment. Other modifications are related to the possibility of dealing with the multilevel Breit-Wigner formalism.

The following ENDF/B version 3 materials were processed: U-234, U-235, U-238, Pu-239, Pu-240, Pu-241, Pu-242, Mo-98, Ta-181, Ta-182, Cu, Mn-55, Fe, Cr, Al-27, Na-23, O-16, ^{12}C , B-10, B-11, Au-197. In the same collection, it was thought necessary to include Fe, Cr, Ni derived from ENDF/B version 1, in view of the unsatisfactory results so far obtain with the corresponding version 3 materials /9/.

Self-shielding factors were generated corresponding to the following values of the potential cross section: .01 b, 10 b, 100 b and 1000 b. Temperature T dependence was introduced considering 3 values of T: 300 K, 900 K and 2100 K.

Both infinite dilution cross sections and self-shielding factors were generated in the multigroup energy structure given in Table I, based on half-lethargy widths. The same multigroup structure was used in all the calculations in which the ultra-

fine group methodology was used as it is indicated in a companion report, dealing with such methodology /10/. The use of this multigroup structure prevents further use of the original ABBN library or KFK data /4/. On the other side, the completeness of the ENDF/B files will provide the necessary replacements. Tables for all the materials are given in Appendix I.

3. - ADJUSTED CROSS SECTIONS.

Correlation between integral experimental data and multigroup cross sections has become a routine way to "up-date" neutron cross sections libraries in many leading Fast Reactor Programs abroad (UK, France, Japan). From our side, we used the integral benchmark experiments performed in ZPR-6 Assembly 7 and in SNEAK Assemblies 7A and 7B to adjust some of the previously mentioned materials derived from ENDF/B version 3.

In particular K_{eff} and clean reaction rates ratios (^{238}U captures to ^{239}Pu fissions, ^{238}U fissions to ^{239}Pu fissions and ^{235}U fissions to ^{239}Pu fissions) experiments performed in the three assemblies were used to adjust the $^{238}U \sigma_c$, σ_f and σ_{in} , the $^{239}Pu \sigma_f$ and fission spectrum, and the ^{235}U fission-cross section /11/. The main trends of the adjustments are well justified if compared with recent independent evaluations. Moreover if we consider the following sequence of successive steps:

- a) Use of ENDF/B version 1 (released 1970);
- b) Adjustments of ENDF/B-1 with ZPR-6 Assembly 7 experimental results (1971-1972) /12, b/;
- c) Use of ENDF/B version 3 (released 1972);
- d) Adjustments of ENDF/B-3 with ZPR-6 and SNEAK experimental results (1973) /11/.

we have an increasing number of consistent informations exploit-

ed in an optimal way. In fact, from step a) to b), consistency was gained with a series of highly reliable experiments.

However, since the basic data were sometimes rather unsatisfactory (e.g. ^{239}Pu α and ^{235}U σ_f), the adjustments too could be questioned.

With step c) , new and more accurate data were introduced in the basic data collection. It is interesting to note that the data of step b) already indicated, independently, the trends of the new data of step c) /12/. A higher degree of sophistication and, hopefully, of confidence, was reached with step d), when new benchmark integral data were taken into account and using a more accurate set of basic data as a starting point.

Tables for the adjusted isotopes, U-238, Pu-239 and U-235 are given in Appendix II. It has to be kept in mind that the fission spectra, which must be used in connection with the data of Appendixes I and II, are Maxwellian distributions with a temperature $T = 1.35$ MeV in the case of U-235 and $T = 1.41$ MeV (adjusted value, unadjusted $T = 1.46$ MeV) in the case of Pu-239.

4. - INTERFACES

As previously described /4/, the neutron cross section libraries in Bondarenko format are provided in a form suitable to be processed by neutronics calculation codes of general use, via the PRAVDA code /8/.

This capability was preserved with the ENDF/B-3 data (both adjusted and unadjusted). The list of the identification numbers for the isotopes, when used with the PRAVDA code, is given in Table III.

The data are also stored in the format required by the IDX code /7/. This was done in view of a relevant improvement in the treatment of the elastic moderation, based on the continuous slowing-down theory /13/, which gave rise to a new version of the IDX code /14/. Since the PRAVDA code did not include any special provision for this problem, which is one of the weak points of the self-shielding method, the IDX code will probably be used in the future.

5. - CONCLUSIONS.

With the implementation of the ETOX code on the CNEN computer environment, it was possible to generate an up-to-date library for fast reactors calculations. This was the first step in the work in progress of optimal neutron cross sections generation, the next step being the adjustment of the multigroup parameters using a statistical procedure of correlation with integral experiments. Both adjusted and unadjusted cross sections for a large number of materials, were prepared in formats compatible with the interfaces with neutronics codes in use at CNEN. Future work in this field will be devoted to the already announced ENDF/B version 4 data. For what concerns the adjustment procedures, it is thought that in the future the correlation will be applied directly to the nuclear parameters and no more to the multigroup data. This is the so called consistent method /15/, which will give much more confidence to the adjusted data, which in turn will be in the form of a "corrected" data file to be processed by any of the existing multigroup cross section generation procedures.

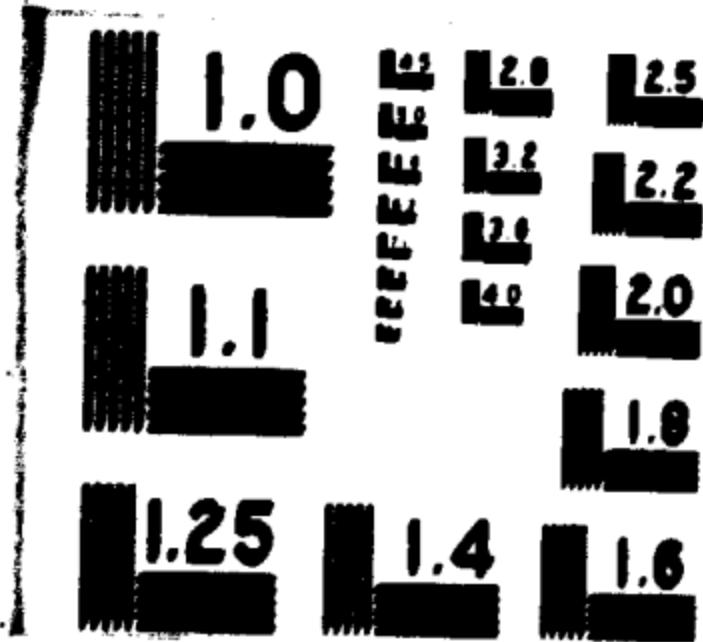


TABLE I

Group	Lower Energy (eV)	Δu
1	6.06 $\times 10^6$	0.5
2	3.68	"
3	2.23	"
4	1.35	"
5	0.821	"
6	0.498	"
7	0.320	"
8	0.183	"
9	0.111	"
10	67.4 $\times 10^3$	"
11	40.9	"
12	24.8	"
13	15.0	"
14	9.12	"
15	5.53	"
16	3.36	"
17	2.04	"
18	1.23	"
19	748. $\times 10^0$	"
20	454.	"
21	275.	"
22	101.	1.0
23	37.3	1.0
24	13.7	1.0
25	5.04	1.0
26	0.683	2.0
27	Thermal	-

TABLE II

List of elements available in Bondarenko format (number of identification for the data set in the PRAVDA format)

Number of id.	Isotope	Comments	Temperature
1	B-10	ENDF/B version 3	300 K
2	B-11	"	"
3	C-12	"	"
4	O-16	"	"
5	Na-23	"	"
6	Al-27	"	"
7	Mn	"	"
8	Cr	"	"
9	Fe	"	"
10	Cu	"	"
11	Mo	"	"
12	Mo	"	900 K
13	Mo	"	2100 K
14	Ta-181	"	300 K
15	Ta-181	"	900 K
16	Ta-181	"	2100 K
17	Ta-182	"	300 K
18	Ta-182	"	900 K
19	Ta-182	"	2100 K
20	Au-197	"	300 K
21	U-234	"	300 K
22	U-234	"	900 K
23	U-234	"	2100 K
24	U-235	"	300 K
25	U-235	"	900 K
26	U-235	"	2100 K
27	U-238	"	300 K
28	U-238	"	900 K
29	U-238	"	2100 K
30	Pu-239	"	300 K
31	Pu-239	"	900 K
32	Pu-239	"	2100 K
33	Pu-240	"	300 K
34	Pu-240	"	900 K
35	Pu-240	"	2100 K
36	Pu-241	"	300 K

follow TABLE II

	Pu-242	ENDF/B version 3	300 K
	Pu-242	"	900 K
	Pu-242	"	2100 K
	U-235-M	Modified ENDFB-3	300 K
	U-235-M	"	900 K
	U-235-M	"	2100 K
	U-238-M	"	300 K
	U-238-M	"	900 K
	U-238-M	"	2100 K
	Pu-239-M	"	300 K
	Pu-239-M	"	900 K
	Pu-239-M	"	2100 K
	Fe-1	ENDF/B version 1	300 K
	Cr-1	"	300 K
	Ni-1	"	300 K

Note: with this data set, consistent fission spectrum must be given in input to the PRAVDA code (see text).

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- /14/ G.PALMIOTTI and M.SALVATORES, "Neutron Moderation in Fast Reactors in Presence of Wide Scattering Resonances: Analysis of Methods" to be published.
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APPENDIX I

ENDF/B-III Cross Sections

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RANGE	SIG. T.F.	SIG. F.F.	SIG. C.F.	SIG. G.F.	SIG. D.F.	SIG. B.F.	SIG. E.F.	SIG. L.F.	SIG. M.F.	SIG. U.F.	SIG. V.F.
1	1.65141	0.0	0.0	0.0	1.63200	0.01958	0.02446	0.04432	0.011150	0.06181	0
2	1.65171	0.0	0.0	0.0	0.02422	0.02051	0.1474	0.2774	0.14120	0.45932	0
3	2.62274	0.0	0.0	0.0	2.63055	0.01959	1.0501	0.01953	0.16260	0.35900	0
4	2.6070	0.0	0.0	0.0	1.65750	0.02051	1.0720	0.1950	0.16482	0.35157	0
5	2.62110	0.0	0.0	0.0	2.61505	0.02051	2.02050	0.01853	0.17296	0.37223	0
6	2.60403	0.0	0.0	0.0	1.65767	0.01951	0.02061	0.00413	0.16160	1.1497	0
7	4.0175	0.0	0.0	0.0	4.00505	0.0	0.7314	0.0076	0.16660	1.4073	0
8	4.05171	0.0	0.0	0.0	1.63760	0.0	3.5410	0.00576	0.16360	1.33156	0
9	4.05414	0.0	0.0	0.0	1.67321	0.0	0.1604	0.0076	0.16850	1.1715	0
10	4.05441	0.0	0.0	0.0	4.01124	0.0	0.7113	0.0076	0.15660	1.0301	0
11	2.60971	0.0	0.0	0.0	2.6010	0.0	2.4455	0.00676	0.16860	0.9411	0
12	5.01468	0.0	0.0	0.0	3.27404	0.0	0.1504	0.0076	0.16860	0.5884	0
13	5.04882	0.0	0.0	0.0	4.2187	0.0	2.2645	0.00676	0.16860	0.8554	0
14	7.65730	0.0	0.0	0.0	5.64178	0.0	2.2402	0.00676	0.16860	0.8449	0
15	9.2405	0.0	0.0	0.0	7.0207	0.0	2.2190	0.00676	0.16860	0.8372	0
16	11.2765	0.0	0.0	0.0	9.00056	0.0	2.2108	0.00676	0.16860	0.8338	0
17	13.9065	0.0	0.0	0.0	11.64946	0.0	2.2059	0.00676	0.16860	0.8323	0
18	17.2929	0.0	0.0	0.0	15.0896	0.0	2.2033	0.00676	0.16860	0.8310	0
19	21.6492	0.0	0.0	0.0	14.4474	0.0	2.2003	0.00676	0.16860	0.8298	0
20	27.2445	0.0	0.0	0.0	25.0445	0.0	2.2000	0.00676	0.16860	0.8297	0
21	34.6381	0.0	0.0	0.0	32.2381	0.0	2.2000	0.00676	0.16860	0.8297	0
22	49.0616	0.0	0.0	0.0	47.6016	0.0	2.2000	0.00676	0.16860	0.4149	0
23	60.5394	0.0	0.0	0.0	76.3394	0.0	2.2000	0.00676	0.16860	0.4149	0
24	131.5512	0.0	0.0	0.0	124.3512	0.0	2.2000	0.00676	0.16860	0.4149	0
25	215.7217	0.0	0.0	0.0	214.5217	0.0	2.2000	0.00676	0.16860	0.4149	0
26	466.7042	0.0	0.0	0.0	466.5040	0.0	2.2000	0.00676	0.16860	0.2074	0
27	13650.75	0.0	0.0	0.0	13656.55	0.0	2.2000	0.00676	0.16860	0.0470	0

CLASSICAL SELF-SMILEDIOLOGY FACTORS

二二

INELASTIC SCATTERING FROM 1 TO 10K

NOD	0	1	2	3	4	5	6	7	8	9	10	11
1	0.038	0.062	0.051	0.020	0.024	0.007	0.001	0.000	0.000	0.000	0.000	0.0
2	0.0	0.014	0.019	0.008	0.005	0.004	0.002	0.001	0.000	0.000	0.000	0.0
3	0.0	0.0	0.044	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

22

SELF-SHIELDING FACTORS OF 1 SP. UNIT TO 100000 SP. UNITS

TEMPERATURE 300.

TEMPERATURE 600.

TEMPERATURE 2100.

CAPTURE SELF-SHIELDING FACTORS

NOD

1	1.000	0.999	1.010	1.100
2	1.000	0.998	0.987	0.925
3	1.000	0.991	0.976	0.944
4	1.000	0.999	0.979	0.926
5	1.000	1.002	1.019	1.157
7	1.000	0.999	0.991	0.965
7	0.494	0.990	0.935	0.822
7	1.000	1.000	1.000	1.031
9	1.000	1.000	1.000	0.943
10	1.000	1.000	1.000	0.949
11	1.000	1.000	1.000	0.994
12	1.000	1.000	0.998	0.994
13	0.937	0.615	0.217	0.115

TOTAL SELF-SHIELDING FACTORS

NOD

1	1.000	0.999	0.999	0.994
2	0.992	0.999	0.997	0.975
3	0.998	0.999	0.995	0.968
4	0.998	0.997	0.991	0.960
5	1.001	0.998	0.985	0.936
6	1.001	0.999	0.995	0.981
7	1.000	0.994	0.963	0.906
8	1.001	1.000	1.000	0.994
9	1.001	1.000	1.000	0.999
10	1.001	1.000	1.000	1.000
11	1.001	1.000	1.000	1.000
12	1.001	1.000	1.000	1.000
13	0.971	0.852	0.778	0.772

ELASTIC SELF-SHIELDING FACTORS

NOD

1	1.000	0.998	0.996	0.988
2	1.000	0.997	0.996	0.985
3	1.000	0.992	0.989	0.974
4	1.000	0.990	0.986	0.968
5	1.000	0.999	0.992	0.967
6	1.000	1.000	0.998	0.990
7	1.000	0.997	0.980	0.966
8	1.000	1.000	1.000	0.999
9	1.000	1.000	1.000	0.999
10	1.000	1.000	1.000	1.000
11	1.000	1.000	1.000	1.000
12	1.000	1.000	1.000	1.000
13	0.985	0.907	0.811	0.787

23

	M06	SIG 107	SIG 115	NU	SIG CAT	SIG IN	SIG EL	MU TL	CSI	SIG N FL
1	1.2522	0.0	0.0	0.0	0.0250	0.0314M	0.9124	0.2908	0.11950	0.4590
2	1.6614	0.0	0.0	0.0	0.0314	0.0314	1.6300	0.1827	0.13770	0.6667
3	1.8832	0.0	0.0	0.0	0.0	0.0	1.8832	0.0276	0.16370	0.6764
4	1.9326	0.0	0.0	0.0	0.0	0.0	1.9326	0.1039	0.15090	0.5633
5	2.4864	0.0	0.0	0.0	0.0	0.0	2.4864	0.1265	0.14710	0.7315
6	3.1035	0.0	0.0	0.0	0.0	0.0	3.1035	0.1155	0.14900	0.42740
7	3.6117	0.0	0.0	0.0	0.0	0.0	3.6117	0.0792	0.15170	1.0958
8	3.9944	0.0	0.0	0.0	0.0	0.0	3.9944	0.0851	0.15410	1.2304
9	4.2592	0.0	0.0	0.0	0.0	0.0	4.2592	0.0749	0.15580	1.3271
10	4.4357	0.0	0.0	0.0	0.0	0.0	4.4357	0.0680	0.15700	1.3924
11	4.5488	0.0	0.0	0.0	0.0	0.0	4.5488	0.0635	0.17770	1.6347
12	4.6192	0.0	0.0	0.0	0.0	0.0	4.6192	0.0607	0.15620	1.46614
13	4.6615	0.0	0.0	0.0	0.0	0.0	4.6615	0.0590	0.12650	1.4775
14	4.6874	0.0	0.0	0.0	0.0	0.0	4.6874	0.0579	0.15860	1.4675
15	4.7034	0.0	0.0	0.0	0.0	0.0	4.7034	0.0576	0.15870	1.4928
16	4.7124	0.0	0.0	0.0	0.0	0.0	4.7124	0.0576	0.15870	1.4958
17	4.7185	0.0	0.0	0.0	0.0	0.0	4.7185	0.0576	0.15870	1.4957
18	4.7222	0.0	0.0	0.0	0.0	0.0	4.7222	0.0576	0.15870	1.4940
19	4.7242	0.0	0.0	0.0	0.0	0.0	4.7242	0.0576	0.15870	1.4937
20	4.7261	0.0	0.0	0.0	0.0	0.0	4.7261	0.0573	0.15870	1.4904
21	4.7274	0.0	0.0	0.0	0.0	0.0	4.7274	0.0572	0.15870	1.4904
22	4.7281	0.0	0.0	0.0	0.0	0.0	4.7281	0.0572	0.15860	1.4906
23	4.7287	0.0	0.0	0.0	0.0	0.0	4.7287	0.0571	0.15860	1.4904
24	4.7290	0.0	0.0	0.0	0.0	0.0	4.7290	0.0570	0.15860	1.4909
25	4.7291	0.0	0.0	0.0	0.0	0.0	4.7291	0.0569	0.15860	1.4910
26	4.7292	0.0	0.0	0.0	0.0	0.0	4.7292	0.0568	0.15860	1.4910

卷之三

SLE - SHIELDING FACTORS CORRESPONDING TO SLOPES $\alpha = 1000, 100, 10, 1, 0.1$

TEMPERATUR 300

THE NATURE OF

1140

לענין גזירות המילוי ברכישת

LANDWIRF SELF-STUDY + ACTIVITIES

ELASTIC SELF-SIMILARITY FUNCTIONS

SELF-SHIELDING FACTORS CORRESPONDING TO SIGMA CUTOFFS 1.00, 1.00, 1.00

TEMPERATURE 300°

HAPTURATE 9.33

TEMPERATURE 700°

CAPTURE SELF-SHIELDING FACTORS

NUG	1.000	0.993	0.996	0.962	0.909
1	0.976	1.002	0.992	0.969	0.976
2	1.000	0.993	0.955	0.782	1.016
3	0.999	0.991	0.941	0.523	0.999
4	1.000	0.996	0.943	0.483	1.000
5	1.000	1.000	1.000	1.000	1.000
6	1.000	1.000	0.949	0.991	1.000
7	1.000	1.002	1.013	1.024	0.996

TOTAL SELF-SHIELDING FACTORS

NUG	1.000	0.993	0.996	0.962	0.909
1	0.976	1.002	0.992	0.969	0.976
2	1.000	0.993	0.955	0.782	1.016
3	0.999	0.991	0.941	0.523	0.999
4	1.000	0.996	0.943	0.483	1.000
5	1.000	1.000	1.000	1.000	1.000
6	1.000	1.000	0.949	0.991	1.000
7	1.000	1.002	1.013	1.024	0.996

ELASTIC SELF-SHIELDING FACTORS

NUG	1.000	0.993	0.996	0.962	0.909
1	0.976	1.002	0.992	0.969	0.976
2	1.000	0.993	0.955	0.782	1.016
3	0.999	0.991	0.941	0.523	0.999
4	1.000	0.996	0.943	0.483	1.000
5	1.000	1.000	1.000	1.000	1.000
6	1.000	1.000	0.949	0.991	1.000
7	1.000	1.002	1.013	1.024	0.996

NUG 22.99

NUG	SIG 101	SIG F1S	NU	SIG CAT	SIG IN	SIG FL	MU EL	CSI	CSIG R ELL
1	1.6997	0.4	0.0	0.0624	0.0	0.0	0.0	0.03480	0.1085
2	1.9830	0.0	0.0	0.0040	0.0	0.0	0.0	0.04390	0.1380
3	2.4900	0.0	0.0	0.0002	0.0	0.0	0.0	0.04540	0.1779
4	2.7009	0.0	0.0	0.0002	0.0	0.0	0.0	0.05550	0.2425
5	3.6807	0.0	0.0	0.0002	0.0	0.0	0.0	0.05720	0.3629
6	4.0441	0.0	0.0	0.0003	0.0	0.0	0.0	0.07670	0.6880
7	3.4525	0.0	0.0	0.0004	0.0	0.0	0.0	0.08010	0.5324
8	4.1980	0.0	0.0	0.0007	0.0	0.0	0.0	0.08110	0.6804
9	3.4019	0.0	0.0	0.0018	0.0	0.0	0.0	0.09530	0.5799
10	3.5606	0.0	0.0	0.0002	0.0	0.0	0.0	0.09590	0.6017
11	5.8435	0.0	0.0	0.0024	0.0	0.0	0.0	0.08560	0.9995
12	3.8273	0.0	0.0	0.0027	0.0	0.0	0.0	0.08620	0.6546
13	4.1147	0.0	0.0	0.0002	0.0	0.0	0.0	0.09580	0.7051
14	4.7631	0.0	0.0	0.0003	0.0	0.0	0.0	0.08560	0.8132
15	6.7045	0.0	0.0	0.0015	0.0	0.0	0.0	0.08630	1.1430
16	22.5407	0.0	0.0	0.0020	0.0	0.0	0.0	0.08530	3.8616
17	135.4947	0.0	0.0	0.0005	0.0	0.0	0.0	0.08530	0.0000
18	7.1425	0.0	0.0	0.0005	0.0	0.0	0.0	0.08530	1.2219
19	3.7014	0.0	0.0	0.0005	0.0	0.0	0.0	0.08530	0.6246
20	3.2684	0.0	0.0	0.0005	0.0	0.0	0.0	0.08530	0.5560
21	3.2164	0.0	0.0	0.0005	0.0	0.0	0.0	0.08530	0.5471
22	3.1670	0.0	0.0	0.0005	0.0	0.0	0.0	0.08530	0.5231
23	3.1517	0.0	0.0	0.0005	0.0	0.0	0.0	0.08530	0.4767
24	3.1531	0.0	0.0	0.0005	0.0	0.0	0.0	0.08530	0.4673
25	3.1661	0.0	0.0	0.0005	0.0	0.0	0.0	0.08530	0.4744
26	3.2154	0.0	0.0	0.0005	0.0	0.0	0.0	0.08530	0.4553
27	3.2251	0.0	0.0	0.0005	0.0	0.0	0.0	0.08530	0.4322

INELASTIC SCATTERING 1401

TEMPERATURE	300.	400.	500.	600.	700.
TEMPERATURE	300.	400.	500.	600.	700.

CENTRAL STATES - SOUTHERN FACTORIES

1	0.941	1.022	0.995	0.954
2	1.012	1.102	1.059	1.020
3	1.067	1.167	1.128	1.089
4	1.090	1.190	1.151	1.112
5	1.095	1.195	1.156	1.117
6	1.097	1.197	1.158	1.119
7	1.098	1.198	1.159	1.120
8	1.099	1.199	1.160	1.121
9	1.100	1.200	1.161	1.122
10	1.101	1.201	1.162	1.123
11	1.102	1.202	1.163	1.124
12	1.103	1.203	1.164	1.125
13	1.104	1.204	1.165	1.126
14	1.105	1.205	1.166	1.127
15	1.106	1.206	1.167	1.128
16	1.107	1.207	1.168	1.129
17	1.108	1.208	1.169	1.130
18	1.109	1.209	1.170	1.131
19	1.110	1.210	1.171	1.132
20	1.111	1.211	1.172	1.133
21	1.112	1.212	1.173	1.134
22	1.113	1.213	1.174	1.135
23	1.114	1.214	1.175	1.136
24	1.115	1.215	1.176	1.137
25	1.116	1.216	1.177	1.138
26	1.117	1.217	1.178	1.139
27	1.118	1.218	1.179	1.140
28	1.119	1.219	1.180	1.141
29	1.120	1.220	1.181	1.142
30	1.121	1.221	1.182	1.143
31	1.122	1.222	1.183	1.144
32	1.123	1.223	1.184	1.145
33	1.124	1.224	1.185	1.146
34	1.125	1.225	1.186	1.147
35	1.126	1.226	1.187	1.148
36	1.127	1.227	1.188	1.149
37	1.128	1.228	1.189	1.150
38	1.129	1.229	1.190	1.151
39	1.130	1.230	1.191	1.152
40	1.131	1.231	1.192	1.153
41	1.132	1.232	1.193	1.154
42	1.133	1.233	1.194	1.155
43	1.134	1.234	1.195	1.156
44	1.135	1.235	1.196	1.157
45	1.136	1.236	1.197	1.158
46	1.137	1.237	1.198	1.159
47	1.138	1.238	1.199	1.160
48	1.139	1.239	1.200	1.161
49	1.140	1.240	1.201	1.162
50	1.141	1.241	1.202	1.163
51	1.142	1.242	1.203	1.164
52	1.143	1.243	1.204	1.165
53	1.144	1.244	1.205	1.166
54	1.145	1.245	1.206	1.167
55	1.146	1.246	1.207	1.168
56	1.147	1.247	1.208	1.169
57	1.148	1.248	1.209	1.170
58	1.149	1.249	1.210	1.171
59	1.150	1.250	1.211	1.172
60	1.151	1.251	1.212	1.173
61	1.152	1.252	1.213	1.174
62	1.153	1.253	1.214	1.175
63	1.154	1.254	1.215	1.176
64	1.155	1.255	1.216	1.177
65	1.156	1.256	1.217	1.178
66	1.157	1.257	1.218	1.179
67	1.158	1.258	1.219	1.180
68	1.159	1.259	1.220	1.181
69	1.160	1.260	1.221	1.182
70	1.161	1.261	1.222	1.183
71	1.162	1.262	1.223	1.184
72	1.163	1.263	1.224	1.185
73	1.164	1.264	1.225	1.186
74	1.165	1.265	1.226	1.187
75	1.166	1.266	1.227	1.188
76	1.167	1.267	1.228	1.189
77	1.168	1.268	1.229	1.190
78	1.169	1.269	1.230	1.191
79	1.170	1.270	1.231	1.192
80	1.171	1.271	1.232	1.193
81	1.172	1.272	1.233	1.194
82	1.173	1.273	1.234	1.195
83	1.174	1.274	1.235	1.196
84	1.175	1.275	1.236	1.197
85	1.176	1.276	1.237	1.198
86	1.177	1.277	1.238	1.199
87	1.178	1.278	1.239	1.200
88	1.179	1.279	1.240	1.201
89	1.180	1.280	1.241	1.202
90	1.181	1.281	1.242	1.203
91	1.182	1.282	1.243	1.204
92	1.183	1.283	1.244	1.205
93	1.184	1.284	1.245	1.206
94	1.185	1.285	1.246	1.207
95	1.186	1.286	1.247	1.208
96	1.187	1.287	1.248	1.209
97	1.188	1.288	1.249	1.210
98	1.189	1.289	1.250	1.211
99	1.190	1.290	1.251	1.212
100	1.191	1.291	1.252	1.213
101	1.192	1.292	1.253	1.214
102	1.193	1.293	1.254	1.215
103	1.194	1.294	1.255	1.216
104	1.195	1.295	1.256	1.217
105	1.196	1.296	1.257	1.218
106	1.197	1.297	1.258	1.219
107	1.198	1.298	1.259	1.220
108	1.199	1.299	1.260	1.221
109	1.200	1.300	1.261	1.222
110	1.201	1.301	1.262	1.223
111	1.202	1.302	1.263	1.224
112	1.203	1.303	1.264	1.225
113	1.204	1.304	1.265	1.226
114	1.205	1.305	1.266	1.227
115	1.206	1.306	1.267	1.228
116	1.207	1.307	1.268	1.229
117	1.208	1.308	1.269	1.230
118	1.209	1.309	1.270	1.231
119	1.210	1.310	1.271	1.232
120	1.211	1.311	1.272	1.233
121	1.212	1.312	1.273	1.234
122	1.213	1.313	1.274	1.235
123	1.214	1.314	1.275	1.236
124	1.215	1.315	1.276	1.237
125	1.216	1.316	1.277	1.238
126	1.217	1.317	1.278	1.239
127	1.218	1.318	1.279	1.240
128	1.219	1.319	1.280	1.241
129	1.220	1.320	1.281	1.242
130	1.221	1.321	1.282	1.243
131	1.222	1.322	1.283	1.244
132	1.223	1.323	1.284	1.245
133	1.224	1.324	1.285	1.246
134	1.225	1.325	1.286	1.247
135	1.226	1.326	1.287	1.248
136	1.227	1.327	1.288	1.249
137	1.228	1.328	1.289	1.250
138	1.229	1.329	1.290	1.251
139	1.230	1.330	1.291	1.252
140	1.231	1.331	1.292	1.253
141	1.232	1.332	1.293	1.254
142	1.233	1.333	1.294	1.255
143	1.234	1.334	1.295	1.256
144	1.235	1.335	1.296	1.257
145	1.236	1.336	1.297	1.258
146	1.237	1.337	1.298	1.259
147	1.238	1.338	1.299	1.260
148	1.239	1.339	1.300	1.261
149	1.240	1.340	1.301	1.262
150	1.241	1.341	1.302	1.263
151	1.242	1.342	1.303	1.264
152	1.243	1.343	1.304	1.265
153	1.244	1.344	1.305	1.266
154	1.245	1.345	1.306	1.267
155	1.246	1.346	1.307	1.268
156	1.247	1.347	1.308	1.269
157	1.248	1.348	1.309	1.270
158	1.249	1.349	1.310	1.271
159	1.250	1.350	1.311	1.272
160	1.251	1.351	1.312	1.273
161	1.252	1.352	1.313	1.274
162	1.253	1.353	1.314	1.275
163	1.254	1.354	1.315	1.276
164	1.255	1.355	1.316	1.277
165	1.256	1.356	1.317	1.278
166	1.257	1.357	1.318	1.279
167	1.258	1.358	1.319	1.280
168	1.259	1.359	1.320	1.281
169	1.260	1.360	1.321	1.282
170	1.261	1.361	1.322	1.283
171	1.262	1.362	1.323	1.284
172	1.263	1.363	1.324	1.285
173	1.264	1.364	1.325	1.286
174	1.265	1.365	1.326	1.287
175	1.266	1.366	1.327	1.288
176	1.267	1.367	1.328	1.289
177	1.268	1.368	1.329	1.290
178	1.269	1.369	1.330	1.291
179	1.270	1.370	1.331	1.292
180	1.271	1.371	1.332	1.293
181	1.272	1.372	1.333	1.294
182	1.273	1.373	1.334	1.295
183	1.274	1.374	1.335	1.296
184	1.275	1.375	1.336	1.297
185	1.276	1.376	1.337	1.298
186	1.277	1.377	1.338	1.299
187	1.278	1.378	1.339	1.300
188	1.279	1.379	1.340	1.301
189	1.280	1.380	1.341	1.302
190	1.281	1.381	1.342	1.303
191	1.282	1.382	1.343	1.304
192	1.283	1.383	1.344	1.305
193	1.284	1.384	1.345	1.306
194	1.285	1.385	1.346	1.307
195	1.286	1.386	1.347	1.308
196	1.287	1.387	1.348	1.309
197	1.288	1.388	1.349	1.310
198	1.289	1.389	1.350	1.311
199	1.290	1.390	1.351	1.312
200	1.291	1.391	1.352	1.313
201	1.292	1.392	1.353	1.314
202	1.293	1.393	1.354	1.315
203	1.294	1.394	1.355	1.316
204	1.295	1.395	1.356	1.317
205	1.296	1.396	1.357	1.318
206	1.297	1.397	1.358	1.319
207	1.298	1.398	1.359	1.320
208	1.299	1.399	1.360	1.321
209	1.300	1.400	1.361	1.322
210	1.301	1.401	1.362	1.323
211	1.302	1.402	1.363	1.324
212	1.303	1.403	1.364	1.325
213	1.304	1.404	1.365	1.326
214	1.305	1.405	1.366	1.327
215	1.306	1.406	1.367	1.328
216	1.307	1.407	1.368	1.329
217	1.308	1.408	1.369	1.330
218	1.309	1.409	1.370	1.331
219	1.310	1.410	1.371	1.332
220	1.311	1.411	1.372	1.333
221	1.312	1.412	1.373	1.334
222	1.313	1.413	1.374	1.335
223	1.314	1.414	1.375	1.336
224	1.315	1.415	1.376	1.337
225	1.316	1.416	1.377	1.338
226	1.317	1.417	1.378	1.339
227	1.318	1.418	1.379	1.340
228	1.319	1.419	1.380	1.341
229	1.320	1.420	1.381	1.342
230	1.321	1.421	1.382	1.343
231	1.322	1.422	1.383	1.344
232	1.323	1.423	1.384	1.345
233	1.324	1.424	1.385	1.346
234	1.325	1.425	1.386	1.347
235	1.326	1.426	1.387	1.348
236</				

15	0.996	0.997	0.997	0.997
16	0.982	0.875	0.875	0.875
17	0.955	0.495	0.994	0.994
18	0.917	0.581	0.661	0.661
19	0.938	1.000	0.966	0.966
20	1.000	1.000	1.000	1.000
21	1.011	1.000	1.000	1.000
22	1.000	1.000	1.000	1.000
23	0.937	1.000	1.000	1.000
24	0.914	1.000	1.000	1.000
25	0.935	1.000	1.000	1.000
26	1.000	0.974	0.974	0.974
27	1.000	1.000	1.000	1.000

TABLE II - CONTINUATION

N	0.999	0.999	0.999	0.999
1	1.000	0.999	0.999	0.999
2	1.000	0.999	0.999	0.999
3	1.000	0.999	0.999	0.999
4	1.000	0.997	0.997	0.997
5	1.000	0.997	0.997	0.997
6	1.000	0.999	0.999	0.999
7	1.000	0.998	0.998	0.998
8	1.000	0.996	0.996	0.996
9	1.000	1.000	0.999	0.999
10	1.000	1.000	1.000	1.000
11	0.995	0.958	0.860	0.723
12	1.000	1.000	1.000	1.000
13	1.000	1.000	1.000	1.000
14	1.000	1.000	0.999	0.999
15	1.000	0.999	0.999	0.999
16	0.994	0.733	0.739	0.740
17	0.932	0.674	0.462	0.405
18	0.989	0.989	0.940	0.375
19	1.000	1.000	0.999	0.999
20	1.000	1.000	1.000	1.000
21	1.000	1.000	1.000	1.000
22	1.000	1.000	1.000	1.000
23	1.000	1.000	1.000	1.000
24	1.000	1.000	1.000	1.000
25	1.000	1.000	1.000	1.000
26	1.000	1.000	1.000	1.000
27	1.000	1.000	0.999	0.999

TABLE II - CONTINUATION

AL-3 2E-3H

N	MNG	SIG TOT	SIG FIS	MU	SIG CAT	SIG IR	SIG ST	MU ST	LST	SIG + LST
1	1.9059	0.0	0.0	0.0	0.00442	0.00114	1.0000	0.00000	0.03250	0.03250
2	2.2481	0.0	0.0	0.0	0.0165	0.7515	1.4781	0.00000	0.014610	0.014610
3	2.7681	0.0	0.0	0.0	0.3022	0.64917	2.2746	0.00000	0.01420	0.01420
4	3.0309	0.0	0.0	0.0	0.3332	0.2970	2.7331	0.00000	0.00690	0.00690
5	3.3173	0.0	0.0	0.0	0.4004	0.1013	3.2159	0.00000	0.04990	0.04990
6	3.9418	0.0	0.0	0.0	0.00000	0.000	4.9412	0.00000	0.00000	0.00000
7	4.0175	0.0	0.0	0.0	0.00000	0.000	4.2167	0.00000	0.00000	0.00000
8	4.2705	0.0	0.0	0.0	0.00008	0.000	4.2705	0.00000	0.00000	0.00000
9	6.2559	0.0	0.0	0.0	0.3023	0.000	6.2536	0.00000	0.84991	0.84991
10	6.5803	0.0	0.0	0.0	0.3322	0.000	6.3861	0.00000	0.3604	0.3604
11	2.7474	0.0	0.0	0.0	0.00000	0.000	2.7474	0.00000	0.00000	0.00000
12	9.0752	0.0	0.0	0.0	0.00000	0.000	9.0752	0.00000	0.00000	0.00000
13	0.9409	0.0	0.0	0.0	0.00000	0.000	0.9409	0.00000	0.00000	0.00000
14	1.0345	0.0	0.0	0.0	0.00000	0.000	1.0345	0.00000	0.00000	0.00000
15	1.7436	0.0	0.0	0.0	0.00000	0.000	1.7436	0.00000	0.00000	0.00000
16	1.45120	0.0	0.0	0.0	0.00000	0.000	1.45120	0.00000	0.00000	0.00000
17	1.6117	0.0	0.0	0.0	0.00000	0.000	1.6117	0.00000	0.00000	0.00000
18	1.5316	0.0	0.0	0.0	0.00000	0.000	1.5316	0.00000	0.00000	0.00000
19	1.517	0.0	0.0	0.0	0.00000	0.000	1.517	0.00000	0.00000	0.00000
20	1.5258	0.0	0.0	0.0	0.00000	0.000	1.5258	0.00000	0.00000	0.00000
21	1.6235	0.0	0.0	0.0	0.00000	0.000	1.6235	0.00000	0.00000	0.00000
22	1.6578	0.0	0.0	0.0	0.00000	0.000	1.6578	0.00000	0.00000	0.00000
23	1.65276	0.0	0.0	0.0	0.00000	0.000	1.65276	0.00000	0.00000	0.00000
24	1.6517	0.0	0.0	0.0	0.00000	0.000	1.6517	0.00000	0.00000	0.00000
25	1.65120	0.0	0.0	0.0	0.00000	0.000	1.65120	0.00000	0.00000	0.00000
26	1.65120	0.0	0.0	0.0	0.00000	0.000	1.65120	0.00000	0.00000	0.00000
27	1.65120	0.0	0.0	0.0	0.00000	0.000	1.65120	0.00000	0.00000	0.00000

N	MNG	SIG TOT	SIG FIS	MU	SIG CAT	SIG IR	SIG ST	MU ST	LST	SIG + LST
1	1.9059	0.0	0.0	0.0	0.00442	0.00114	1.0000	0.00000	0.03250	0.03250
2	2.2481	0.0	0.0	0.0	0.0165	0.7515	1.4781	0.00000	0.014610	0.014610
3	2.7681	0.0	0.0	0.0	0.3022	0.64917	2.2746	0.00000	0.01420	0.01420
4	3.0309	0.0	0.0	0.0	0.3332	0.2970	2.7331	0.00000	0.00690	0.00690
5	3.3173	0.0	0.0	0.0	0.4004	0.1013	3.2159	0.00000	0.04990	0.04990
6	3.9418	0.0	0.0	0.0	0.00000	0.000	4.9412	0.00000	0.00000	0.00000
7	4.0175	0.0	0.0	0.0	0.00000	0.000	4.2167	0.00000	0.00000	0.00000
8	4.2705	0.0	0.0	0.0	0.00008	0.000	4.2705	0.00000	0.00000	0.00000
9	6.2559	0.0	0.0	0.0	0.3023	0.000	6.2536	0.00000	0.84991	0.84991
10	6.5803	0.0	0.0	0.0	0.3322	0.000	6.3861	0.00000	0.3604	0.3604
11	2.7474	0.0	0.0	0.0	0.00000	0.000	2.7474	0.00000	0.00000	0.00000
12	9.0752	0.0	0.0	0.0	0.00000	0.000	9.0752	0.00000	0.00000	0.00000
13	0.9409	0.0	0.0	0.0	0.00000	0.000	0.9409	0.00000	0.00000	0.00000
14	1.0345	0.0	0.0	0.0	0.00000	0.000	1.0345	0.00000	0.00000	0.00000
15</td										

1. 1.004 1.000 0.996 0.972
 15. 1.000 0.993 0.991 0.991
 16. 1.002 1.000 1.000 1.000
 17. 1.002 1.000 1.000 1.000
 18. 1.001 1.000 1.000 1.000
 19. 1.001 1.000 1.000 1.000
 20. 1.005 1.003 1.000 1.000
 21. 1.001 1.000 1.000 1.000
 22. 0.993 1.001 1.000 1.000
 23. 0.992 1.001 1.000 1.000
 24. 0.995 1.001 1.000 1.000
 25. 0.995 1.000 1.000 1.000
 26. 0.995 1.000 1.000 1.000
 27. 1.016 0.995 0.947 0.917

ELASTIC SELF-ADMITTING FACTORS

NO G
 1. 1.000 0.997 0.998 0.998
 2. 1.000 0.995 0.994 0.987
 3. 1.000 0.997 0.991 0.984
 4. 1.000 0.997 0.997 0.975
 5. 1.000 0.996 0.984 0.957
 6. 1.000 0.995 0.983 0.944
 7. 1.000 0.997 0.981 0.932
 8. 0.999 0.995 0.982 0.851
 9. 0.998 0.980 0.875 0.537
 10. 0.995 0.966 0.905 0.557
 11. 0.996 0.995 0.963 0.858
 12. 0.984 0.903 0.535 0.174
 13. 1.000 1.000 0.996 0.944
 14. 1.000 1.000 0.998 0.985
 15. 0.993 0.991 0.947 0.874
 16. 1.000 1.000 1.000 1.000
 17. 1.000 1.000 1.000 1.000
 18. 1.000 1.000 1.000 1.000
 19. 1.000 1.000 1.000 1.000
 20. 1.000 1.000 1.000 1.000
 21. 1.000 1.000 1.000 1.000
 22. 1.000 1.000 1.000 1.000
 23. 1.000 1.000 1.000 1.000
 24. 1.000 1.000 1.000 1.000
 25. 1.000 1.000 1.000 1.000
 26. 1.000 1.000 1.000 1.000
 27. 1.000 1.000 1.000 1.000

MN-3 54.94

	NDG9	SIG TOT	SIG FIS	NU	SIG CAT	SIG IN	SIG EL	NU EL	CSI	SIG R EL
1.	3.4592	0.0	0.0	0.0512	1.3761	2.0318	0.7045	0.61070	0.0915	
2.	3.7236	0.0	0.0	0.0102	1.3558	2.1576	0.6284	0.01370	0.0928	
3.	3.6200	0.0	0.0	0.0020	1.2436	2.1744	0.5180	0.01770	0.0923	
4.	3.4656	0.0	0.0	0.0026	1.0515	2.4117	0.4441	0.02416	0.1162	
5.	3.2116	0.0	0.0	0.0031	0.7347	2.4651	0.1184	0.03240	0.1548	
6.	3.2793	0.0	0.0	0.0040	0.4915	2.7943	0.0590	0.03460	0.1911	
7.	3.9113	0.0	0.0	0.0063	0.4402	3.5344	0.0621	0.03440	0.2413	
8.	5.2237	0.0	0.0	0.0097	0.3625	4.8485	0.0521	0.03480	0.3176	
9.	7.3162	0.0	0.0	0.0144	0.2067	7.0451	0.0388	0.04530	0.5004	
10.	7.4839	0.0	0.0	0.0210	0.0	7.4623	0.0238	0.01580	0.5351	
11.	8.9368	0.0	0.0	0.0299	0.0	8.9368	0.0138	0.03620	0.6452	
12.	14.1866	0.0	0.0	0.0502	0.0	14.1376	0.0124	0.03630	1.0256	
13.	12.7031	0.0	0.0	0.0767	0.0	12.6276	0.0122	0.03730	0.4100	
14.	10.2960	0.0	0.0	0.0823	0.0	10.2147	0.0122	0.03610	0.7410	
15.	45.7171	0.0	0.0	0.0944	0.0	46.6027	0.0122	0.03750	0.3446	
16.	13.8481	0.0	0.0	0.0943	0.0	13.5356	0.0122	0.03730	1.0738	
17.	271.7335	0.0	0.0	0.0946	0.0	271.3146	0.0122	0.03630	0.00000	
18.	42.2613	0.0	0.0	0.1130	0.0	42.1426	0.0122	0.03630	0.0573	
19.	73.4626	0.0	0.0	0.1137	0.0	73.3399	0.0122	0.03630	0.1745	
20.	21.3533	0.0	0.0	0.1167	0.0	21.1763	0.0122	0.03630	0.5463	
21.	44.1627	0.0	0.0	0.1176	0.0	43.9801	0.0122	0.03630	0.00000	
22.	17.6706	0.0	0.0	0.1176	0.0	17.2107	0.0122	0.03630	0.5243	
23.	43.5591	0.0	0.0	0.1179	0.0	43.3722	0.0122	0.03630	0.1091	
24.	2.6227	0.0	0.0	0.1214	0.0	2.4126	0.0122	0.02630	0.1765	
25.	3.6042	0.0	0.0	0.1221	0.0	3.4721	0.0122	0.03630	0.0379	
26.	3.6161	0.0	0.0	0.1212	0.0	3.4731	0.0122	0.03630	0.0324	
27.	45.6034	0.0	0.0	0.1221	0.0	45.4126	0.0122	0.03630	0.0172	

LOG	1.000	0.998	1.001	1.001
1	1.000	0.995	1.001	1.001
2	1.000	0.995	0.993	0.992
3	1.000	0.992	0.992	0.992
4	1.000	0.994	0.994	0.995
5	1.000	1.000	1.000	1.001
6	1.000	1.000	0.998	0.998
7	1.000	1.000	0.997	0.997
8	1.000	1.000	0.997	0.997
9	1.000	0.996	0.996	0.996
10	0.999	0.997	0.997	0.997
11	0.998	0.995	0.995	0.995
12	0.998	0.996	0.996	0.996
13	0.995	0.991	0.981	0.971
14	0.994	0.994	0.987	0.972
15	0.993	0.749	0.460	0.321
16	0.992	0.966	0.843	0.771
17	0.991	0.406	0.451	0.421
18	0.935	0.936	0.935	0.922
19	0.675	0.325	0.197	0.175
20	0.395	0.291	0.171	0.123
21	0.601	0.334	0.251	0.216
22	0.989	0.915	0.784	0.671
23	1.000	1.000	1.035	1.050
24	1.000	1.000	1.020	1.047
25	1.000	1.000	0.998	0.997
26	1.000	0.999	0.991	0.985
27	0.947	0.713	0.529	0.341

SELF-SHIELDING FACTORS (WELDING SPUNNING TO SIGMA WELDING, 10-1-41)

TEMPERATURE 300°
CAPTURE SELF-SHIELDING FACTORS
TEMPERATURE 2100°
TEMPERATURE 2100°

LOG

1	1.000	0.998	1.001	1.001
2	1.000	0.995	0.993	0.992
3	1.000	0.992	0.992	0.992
4	1.000	0.994	0.994	0.995
5	1.000	1.000	1.000	1.001
6	1.000	1.000	0.998	0.998
7	1.000	1.000	0.997	0.997
8	1.000	1.000	0.997	0.997
9	1.000	0.996	0.996	0.996
10	0.999	0.997	0.997	0.997
11	0.998	0.995	0.995	0.995
12	0.998	0.996	0.996	0.996
13	0.995	0.961	0.964	0.950
14	0.994	0.994	0.967	0.923
15	0.993	0.749	0.460	0.321
16	0.992	0.966	0.843	0.771
17	0.991	0.406	0.451	0.421
18	0.935	0.936	0.935	0.922
19	0.675	0.325	0.197	0.175
20	0.395	0.291	0.171	0.123
21	0.601	0.334	0.251	0.216
22	0.989	0.915	0.784	0.671
23	1.000	1.000	1.035	1.050
24	1.000	1.000	1.020	1.047
25	1.000	1.000	0.998	0.997
26	1.000	0.999	0.991	0.985
27	0.947	0.713	0.529	0.341

T TAB. SELF-SHIELDING FACTORS

1	1.001	0.999	0.998	0.996
2	1.000	1.000	1.000	1.000
3	0.996	1.000	1.000	1.000
4	1.000	1.000	1.000	1.000
5	1.000	1.000	1.000	1.000
6	1.000	1.000	1.000	1.000
7	1.000	1.000	1.000	1.000
8	1.000	1.000	1.000	1.000
9	1.000	1.000	1.000	1.000
10	0.996	0.999	0.999	0.997
11	0.943	0.880	0.577	0.176
12	0.993	0.717	0.232	0.341

12	0.999	0.988	0.285	0.042
14	0.990	0.457	0.579	0.151
15	0.961	0.529	0.205	0.121
16	0.946	0.418	0.651	0.254
17	0.796	0.410	0.271	0.241
18	0.936	0.688	0.370	0.251
19	0.765	0.289	0.173	0.105
20	0.996	0.951	0.860	0.112
21	0.411	0.193	0.145	0.114
22	0.153	0.777	0.649	0.104
23	0.945	0.494	0.643	0.191
24	0.979	1.000	1.000	0.201
25	0.698	1.000	1.000	0.197
26	1.000	0.999	0.992	0.197
27	0.844	0.562	0.241	0.104

TABLE III. THE FACTORS

NUG	SIG TUT	SIG FIS	MU	SIG CAT
1	1.000	0.997	0.995	0.674
2	1.000	0.992	0.994	0.414
3	1.000	0.992	0.992	0.412
4	1.000	0.994	0.994	0.297
5	1.000	1.000	1.000	1.000
6	1.000	1.000	1.000	1.000
7	1.000	1.000	1.000	1.000
8	1.000	1.000	0.994	0.954
9	1.000	1.000	0.994	0.954
10	0.995	0.984	0.933	0.456
11	0.992	0.936	0.736	0.437
12	0.979	0.862	0.439	0.165
13	0.976	0.823	0.461	0.163
14	0.940	0.921	0.722	0.550
15	0.949	0.717	0.379	0.254
16	0.995	0.944	0.920	0.941
17	0.986	0.632	0.487	0.454
18	0.987	0.868	0.568	0.454
19	0.722	0.412	0.253	0.157
20	0.947	0.916	0.920	0.941
21	0.605	0.344	0.265	0.257
22	0.981	0.871	0.663	0.522
23	1.000	0.999	0.994	0.970
24	1.000	1.000	1.000	0.970
25	1.000	1.000	1.000	1.000
26	1.000	1.000	1.000	1.000
27	1.000	1.000	1.000	1.000

NUG	SIG TUT	SIG FIS	MU	SIG CAT	SIG IN	SIG EL	SIG MU	SIG EL	SIG R	EL
1	3.3862	0.0	0.0	0.0267	1.1997	2.1298	0.2955	0.0157C	0.1426	
2	3.7019	0.0	0.0	0.0046	1.2677	2.4297	0.4998	0.0194D	0.1360	
3	3.5982	0.0	0.0	0.0035	0.9217	2.6631	0.4380	0.0218D	0.1275	
4	3.0894	0.0	0.0	0.0035	0.4734	2.6127	0.3122	0.0267D	0.1395	
5	2.8202	0.0	0.0	0.0036	0.0247	2.7919	0.1990	0.0311U	0.1736	
6	3.3449	0.0	0.0	0.0039	0.3023	3.1947	0.2228	0.0302U	0.2019	
7	3.2961	0.0	0.0	0.0040	0.0	3.2921	0.2311	0.0298U	0.1985	
8	3.9071	0.0	0.0	0.0040	0.0	3.9031	0.2123	0.0305C	0.2336	
9	6.2601	0.0	0.0	0.0068	0.0	6.2533	0.2009	0.0310U	0.3878	
10	6.3770	0.0	0.0	0.0078	0.0	6.3759	0.1912	0.0343U	0.2505	
11	6.6050	0.0	0.0	0.0155	0.0	6.5496	0.1309	0.0376C	0.4950	
12	3.3072	0.0	0.0	0.0177	0.0	3.2759	0.1249	0.0343U	0.2505	
13	3.1174	0.0	0.0	0.0336	0.0	3.0634	0.1456	0.0332C	0.4224	
14	6.3179	0.0	0.0	0.0339	0.0	6.2466	0.1129	0.0376C	0.4950	
15	24.6640	0.0	0.0	0.0851	0.0	24.5777	0.0129	0.0381U	1.8527	
16	25.9143	0.0	0.0	0.0851	0.0	25.8129	0.0129	0.0381U	1.8527	
17	9.66219	0.0	0.0	0.0254	0.0	9.7433	0.0129	0.0381U	1.9432	
18	0.0235	0.0	0.0	0.2234	0.0	4.4421	0.0129	0.0381U	0.4444	
19	4.9442	0.0	0.0	0.0165	0.0	4.9244	0.0129	0.0381U	0.3777	
20	0.0073	0.0	0.0	0.0231	0.0	0.6243	0.0129	0.0381U	0.3777	
21	4.5233	0.0	0.0	0.0231	0.0	4.4421	0.0129	0.0381U	0.4444	
22	3.04491	0.0	0.0	0.0165	0.0	4.0054	0.0129	0.0381U	0.3777	
23	4.6261	0.0	0.0	0.0231	0.0	4.6261	0.0129	0.0381U	0.4444	
24	4.6554	0.0	0.0	0.0231	0.0	4.6554	0.0129	0.0381U	0.4444	
25	4.5170	0.0	0.0	0.0165	0.0	4.5170	0.0129	0.0381U	0.3777	
26	5.7200	0.0	0.0	0.0231	0.0	5.7200	0.0129	0.0381U	0.4444	
27	15.3757	0.0	0.0	0.0165	0.0	15.3757	0.0129	0.0381U	0.3777	

ESTATE PLANNING PAPERS

卷之三

PHILIPS AND DODGE 10-10

SELF-SHIELDING FACTORS OTHER THAN ABSORBERS

TEMPERATURE 300,

THE MOTHER OF ALL FOLKLORE 130

TEMPERATURE 2100.

CAPTURE SETS-SHIELDING FACTORS

MUG

1	1.000	0.999	1.000	1.001
2	1.000	0.999	0.999	0.999
3	1.000	0.999	0.999	0.999
4	1.000	1.000	1.000	0.999
5	1.000	1.000	1.002	1.004
6	1.000	1.000	1.001	1.007
7	1.000	1.000	1.001	1.005
8	1.000	1.000	1.001	0.999
9	1.000	1.000	1.002	1.002
10	1.000	0.999	0.997	0.997
11	0.998	0.981	0.887	0.744
12	0.984	0.894	0.701	0.524
13	0.999	0.989	0.924	0.772
14	0.995	0.987	0.919	0.746
15	0.997	0.975	0.893	0.613
16	0.995	0.945	0.371	0.435
17	1.000	0.993	0.956	0.490
18	1.000	0.993	0.991	0.482
19	0.951	0.700	0.304	0.261
20	1.000	1.000	0.914	0.914
21	1.000	1.000	1.003	0.999
22	1.000	1.000	0.999	0.997
23	1.000	1.000	1.000	1.000
24	1.000	1.000	1.000	1.000
25	1.000	1.000	1.000	1.000
26	1.000	1.000	0.994	0.999
27	0.994	0.918	0.732	0.112

LATE-ONSET-SUPPRESSING FACTORS.

N₂ + S

1	1.003	1.800	0.994	0.990
2	1.006	0.996	0.996	0.994
3	1.007	1.003	0.992	0.993
4	0.970	0.945	0.972	0.971
5	1.029	0.946	0.944	0.927
6	1.039	0.957	0.947	0.950
7	0.974	0.941	0.950	0.931
8	0.959	0.941	0.970	0.944
9	0.947	0.935	0.951	0.951
10	0.944	0.941	0.915	0.954
11	0.949	0.949	0.970	0.948
12	0.922	0.761	0.912	0.912

卷之三

INPLASTIC STIFFNESS, INCH²/LB.

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27							
1	0.023	0.0242	0.0244	0.0246	0.0248	0.0250	0.0252	0.0254	0.0256	0.0258	0.0260	0.0262	0.0264	0.0266	0.0268	0.0270	0.0272	0.0274	0.0276	0.0278	0.0280	0.0282	0.0284	0.0286	0.0288	0.0290	0.0292	0.0294							
2	0.0250	0.0249	0.0248	0.0247	0.0246	0.0245	0.0244	0.0243	0.0242	0.0241	0.0240	0.0239	0.0238	0.0237	0.0236	0.0235	0.0234	0.0233	0.0232	0.0231	0.0230	0.0229	0.0228	0.0227	0.0226	0.0225	0.0224	0.0223	0.0222						
3	0.0252	0.0250	0.0248	0.0246	0.0244	0.0242	0.0240	0.0238	0.0236	0.0234	0.0232	0.0230	0.0228	0.0226	0.0224	0.0222	0.0220	0.0218	0.0216	0.0214	0.0212	0.0210	0.0208	0.0206	0.0204	0.0202	0.0200	0.0198	0.0196	0.0194					
4	0.0254	0.0251	0.0248	0.0245	0.0242	0.0239	0.0236	0.0233	0.0230	0.0227	0.0224	0.0221	0.0218	0.0215	0.0212	0.0209	0.0206	0.0203	0.0200	0.0197	0.0194	0.0191	0.0188	0.0185	0.0182	0.0179	0.0176	0.0173	0.0170						
5	0.0256	0.0252	0.0248	0.0244	0.0240	0.0236	0.0232	0.0228	0.0224	0.0220	0.0216	0.0212	0.0208	0.0204	0.0200	0.0196	0.0192	0.0188	0.0184	0.0180	0.0176	0.0172	0.0168	0.0164	0.0160	0.0156	0.0152	0.0148	0.0144	0.0140					
6	0.0258	0.0254	0.0250	0.0246	0.0241	0.0236	0.0231	0.0226	0.0221	0.0216	0.0211	0.0206	0.0201	0.0196	0.0191	0.0186	0.0181	0.0176	0.0171	0.0166	0.0161	0.0156	0.0151	0.0146	0.0141	0.0136	0.0131	0.0126	0.0121						
7	0.0260	0.0256	0.0252	0.0248	0.0243	0.0238	0.0233	0.0228	0.0223	0.0218	0.0213	0.0208	0.0203	0.0200	0.0195	0.0190	0.0185	0.0180	0.0175	0.0170	0.0165	0.0160	0.0155	0.0150	0.0145	0.0140	0.0135	0.0130	0.0125	0.0120					
8	0.0262	0.0258	0.0254	0.0250	0.0245	0.0240	0.0235	0.0230	0.0225	0.0220	0.0215	0.0210	0.0205	0.0200	0.0195	0.0190	0.0185	0.0180	0.0175	0.0170	0.0165	0.0160	0.0155	0.0150	0.0145	0.0140	0.0135	0.0130	0.0125	0.0120					
9	0.0264	0.0260	0.0256	0.0252	0.0248	0.0243	0.0238	0.0233	0.0228	0.0223	0.0218	0.0213	0.0208	0.0203	0.0200	0.0195	0.0190	0.0185	0.0180	0.0175	0.0170	0.0165	0.0160	0.0155	0.0150	0.0145	0.0140	0.0135	0.0130	0.0125	0.0120				
10	0.0266	0.0262	0.0258	0.0254	0.0250	0.0245	0.0240	0.0235	0.0230	0.0225	0.0220	0.0215	0.0210	0.0205	0.0200	0.0195	0.0190	0.0185	0.0180	0.0175	0.0170	0.0165	0.0160	0.0155	0.0150	0.0145	0.0140	0.0135	0.0130	0.0125	0.0120				
11	0.0268	0.0264	0.0260	0.0256	0.0252	0.0247	0.0242	0.0237	0.0232	0.0227	0.0222	0.0217	0.0212	0.0207	0.0202	0.0197	0.0192	0.0187	0.0182	0.0177	0.0172	0.0167	0.0162	0.0157	0.0152	0.0147	0.0142	0.0137	0.0132	0.0127	0.0122				
12	0.0270	0.0266	0.0262	0.0258	0.0254	0.0249	0.0244	0.0239	0.0234	0.0229	0.0224	0.0219	0.0214	0.0209	0.0204	0.0200	0.0195	0.0190	0.0185	0.0180	0.0175	0.0170	0.0165	0.0160	0.0155	0.0150	0.0145	0.0140	0.0135	0.0130	0.0125	0.0120			
13	0.0272	0.0268	0.0264	0.0260	0.0256	0.0251	0.0246	0.0241	0.0236	0.0231	0.0226	0.0221	0.0216	0.0211	0.0206	0.0201	0.0196	0.0191	0.0186	0.0181	0.0176	0.0171	0.0166	0.0161	0.0156	0.0151	0.0146	0.0141	0.0136	0.0131	0.0126	0.0121			
14	0.0274	0.0270	0.0266	0.0262	0.0258	0.0253	0.0248	0.0243	0.0238	0.0233	0.0228	0.0223	0.0218	0.0213	0.0208	0.0203	0.0198	0.0193	0.0188	0.0183	0.0178	0.0173	0.0168	0.0163	0.0158	0.0153	0.0148	0.0143	0.0138	0.0133	0.0128	0.0123			
15	0.0276	0.0272	0.0268	0.0264	0.0260	0.0255	0.0250	0.0245	0.0240	0.0235	0.0230	0.0225	0.0220	0.0215	0.0210	0.0205	0.0200	0.0195	0.0190	0.0185	0.0180	0.0175	0.0170	0.0165	0.0160	0.0155	0.0150	0.0145	0.0140	0.0135	0.0130	0.0125	0.0120		
16	0.0278	0.0274	0.0270	0.0266	0.0262	0.0257	0.0252	0.0247	0.0242	0.0237	0.0232	0.0227	0.0222	0.0217	0.0212	0.0207	0.0202	0.0197	0.0192	0.0187	0.0182	0.0177	0.0172	0.0167	0.0162	0.0157	0.0152	0.0147	0.0142	0.0137	0.0132	0.0127	0.0122		
17	0.0280	0.0276	0.0272	0.0268	0.0264	0.0259	0.0254	0.0249	0.0244	0.0239	0.0234	0.0229	0.0224	0.0219	0.0214	0.0209	0.0204	0.0199	0.0194	0.0189	0.0184	0.0179	0.0174	0.0169	0.0164	0.0159	0.0154	0.0149	0.0144	0.0139	0.0134	0.0129	0.0124		
18	0.0282	0.0278	0.0274	0.0270	0.0266	0.0261	0.0256	0.0251	0.0246	0.0241	0.0236	0.0231	0.0226	0.0221	0.0216	0.0211	0.0206	0.0201	0.0196	0.0191	0.0186	0.0181	0.0176	0.0171	0.0166	0.0161	0.0156	0.0151	0.0146	0.0141	0.0136	0.0131	0.0126	0.0121	
19	0.0284	0.0280	0.0276	0.0272	0.0268	0.0263	0.0258	0.0253	0.0248	0.0243	0.0238	0.0233	0.0228	0.0223	0.0218	0.0213	0.0208	0.0203	0.0198	0.0193	0.0188	0.0183	0.0178	0.0173	0.0168	0.0163	0.0158	0.0153	0.0148	0.0143	0.0138	0.0133	0.0128	0.0123	
20	0.0286	0.0282	0.0278	0.0274	0.0270	0.0265	0.0260	0.0255	0.0250	0.0245	0.0240	0.0235	0.0230	0.0225	0.0220	0.0215	0.0210	0.0205	0.0200	0.0195	0.0190	0.0185	0.0180	0.0175	0.0170	0.0165	0.0160	0.0155	0.0150	0.0145	0.0140	0.0135	0.0130	0.0125	0.0120
21	0.0288	0.0284	0.0280	0.0276	0.0272	0.0267	0.0262	0.0257	0.0252	0.0247	0.0242	0.0237	0.0232	0.0227	0.0222	0.0217	0.0212	0.0207	0.0202	0.0197	0.0192	0.0187	0.0182	0.0177	0.0172	0.0167	0.0162	0.0157	0.0152	0.0147	0.0142	0.0137	0.0132	0.0127	0.0122
22																																			

11	0.978	0.674	0.677	0.677
14	0.979	0.743	0.627	0.462
15	0.915	0.644	0.387	0.312
16	0.914	0.634	0.410	0.343
17	0.922	0.652	0.291	0.250
18	0.962	0.695	0.652	0.603
19	1.000	0.699	0.998	0.999
20	0.721	0.682	0.423	0.401
21	0.969	1.000	0.664	0.664
22	0.948	0.690	0.976	0.971
23	0.969	1.000	1.000	1.000
24	1.000	1.000	1.000	1.000
25	1.000	1.000	1.000	1.000
26	0.963	0.963	0.662	0.557
27				

TABLE II. SELF-ADSORPTION FACTORS

No.	0.000	0.167	0.333	0.500	0.667	0.833	1.000	1.167	1.333	1.500	1.667	1.833	2.000	2.167	2.333	2.500	2.667	2.833	3.000	3.167	3.333	3.500	3.667	3.833	4.000	4.167	4.333	4.500	4.667	4.833	5.000	5.167	5.333	5.500	5.667	5.833	6.000	6.167	6.333	6.500	6.667	6.833	7.000	7.167	7.333	7.500	7.667	7.833	8.000	8.167	8.333	8.500	8.667	8.833	9.000	9.167	9.333	9.500	9.667	9.833	10.000	10.167	10.333	10.500	10.667	10.833	11.000	11.167	11.333	11.500	11.667	11.833	12.000	12.167	12.333	12.500	12.667	12.833	13.000	13.167	13.333	13.500	13.667	13.833	14.000	14.167	14.333	14.500	14.667	14.833	15.000	15.167	15.333	15.500	15.667	15.833	16.000	16.167	16.333	16.500	16.667	16.833	17.000	17.167	17.333	17.500	17.667	17.833	18.000	18.167	18.333	18.500	18.667	18.833	19.000	19.167	19.333	19.500	19.667	19.833	20.000	20.167	20.333	20.500	20.667	20.833	21.000	21.167	21.333	21.500	21.667	21.833	22.000	22.167	22.333	22.500	22.667	22.833	23.000	23.167	23.333	23.500	23.667	23.833	24.000	24.167	24.333	24.500	24.667	24.833	25.000	25.167	25.333	25.500	25.667	25.833	26.000	26.167	26.333	26.500	26.667	26.833	27.000	27.167	27.333	27.500	27.667	27.833	28.000	28.167	28.333	28.500	28.667	28.833	29.000	29.167	29.333	29.500	29.667	29.833	30.000	30.167	30.333	30.500	30.667	30.833	31.000	31.167	31.333	31.500	31.667	31.833	32.000	32.167	32.333	32.500	32.667	32.833	33.000	33.167	33.333	33.500	33.667	33.833	34.000	34.167	34.333	34.500	34.667	34.833	35.000	35.167	35.333	35.500	35.667	35.833	36.000	36.167	36.333	36.500	36.667	36.833	37.000	37.167	37.333	37.500	37.667	37.833	38.000	38.167	38.333	38.500	38.667	38.833	39.000	39.167	39.333	39.500	39.667	39.833	40.000	40.167	40.333	40.500	40.667	40.833	41.000	41.167	41.333	41.500	41.667	41.833	42.000	42.167	42.333	42.500	42.667	42.833	43.000	43.167	43.333	43.500	43.667	43.833	44.000	44.167	44.333	44.500	44.667	44.833	45.000	45.167	45.333	45.500	45.667	45.833	46.000	46.167	46.333	46.500	46.667	46.833	47.000	47.167	47.333	47.500	47.667	47.833	48.000	48.167	48.333	48.500	48.667	48.833	49.000	49.167	49.333	49.500	49.667	49.833	50.000	50.167	50.333	50.500	50.667	50.833	51.000	51.167	51.333	51.500	51.667	51.833	52.000	52.167	52.333	52.500	52.667	52.833	53.000	53.167	53.333	53.500	53.667	53.833	54.000	54.167	54.333	54.500	54.667	54.833	55.000	55.167	55.333	55.500	55.667	55.833	56.000	56.167	56.333	56.500	56.667	56.833	57.000	57.167	57.333	57.500	57.667	57.833	58.000	58.167	58.333	58.500	58.667	58.833	59.000	59.167	59.333	59.500	59.667	59.833	60.000	60.167	60.333	60.500	60.667	60.833	61.000	61.167	61.333	61.500	61.667	61.833	62.000	62.167	62.333	62.500	62.667	62.833	63.000	63.167	63.333	63.500	63.667	63.833	64.000	64.167	64.333	64.500	64.667	64.833	65.000	65.167	65.333	65.500	65.667	65.833	66.000	66.167	66.333	66.500	66.667	66.833	67.000	67.167	67.333	67.500	67.667	67.833	68.000	68.167	68.333	68.500	68.667	68.833	69.000	69.167	69.333	69.500	69.667	69.833	70.000	70.167	70.333	70.500	70.667	70.833	71.000	71.167	71.333	71.500	71.667	71.833	72.000	72.167	72.333	72.500	72.667	72.833	73.000	73.167	73.333	73.500	73.667	73.833	74.000	74.167	74.333	74.500	74.667	74.833	75.000	75.167	75.333	75.500	75.667	75.833	76.000	76.167	76.333	76.500	76.667	76.833	77.000	77.167	77.333	77.500	77.667	77.833	78.000	78.167	78.333	78.500	78.667	78.833	79.000	79.167	79.333	79.500	79.667	79.833	80.000	80.167	80.333	80.500	80.667	80.833	81.000	81.167	81.333	81.500	81.667	81.833	82.000	82.167	82.333	82.500	82.667	82.833	83.000	83.167	83.333	83.500	83.667	83.833	84.000	84.167	84.333	84.500	84.667	84.833	85.000	85.167	85.333	85.500	85.667	85.833	86.000	86.167	86.333	86.500	86.667	86.833	87.000	87.167	87.333	87.500	87.667	87.833	88.000	88.167	88.333	88.500	88.667	88.833	89.000	89.167	89.333	89.500	89.667	89.833	90.000	90.167	90.333	90.500	90.667	90.833	91.000	91.167	91.333	91.500	91.667	91.833	92.000	92.167	92.333	92.500	92.667	92.833	93.000	93.167	93.333	93.500	93.667	93.833	94.000	94.167	94.333	94.500	94.667	94.833	95.000	95.167	95.333	95.500	95.667	95.833	96.000	96.167	96.333	96.500	96.667	96.833	97.000	97.167	97.333	97.500	97.667	97.833	98.000	98.167	98.333	98.500	98.667	98.833	99.000	99.167	99.333	99.500	99.667	99.833	100.000	100.167	100.333	100.500	100.667	100.833	101.000	101.167	101.333	101.500	101.667	101.833	102.000	102.167	102.333	102.500	102.667	102.833	103.000	103.167	103.333	103.500	103.667	103.833	104.000	104.167	104.333	104.500	104.667	104.833	105.000	105.167	105.333	105.500	105.667	105.833	106.000	106.167	106.333	106.500	106.667	106.833	107.000	107.167	107

ELASTIC SCATTERING FACTOR IN fm

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
1	0.004	0.006	0.539	0.507	0.448	0.281	0.145	0.075	0.035	0.027	0.011	0.004	0.002																
2	0.015	0.027	0.441	0.505	0.492	0.204	0.099	0.041	0.017	0.003	0.002	0.001	0.001																
3	0.021	0.288	0.521	0.444	0.278	0.101	0.043	0.020	0.009	0.004	0.001	0.001	0.001																
4	0.002	0.182	0.344	0.321	0.177	0.064	0.036	0.016	0.006	0.002	0.001	0.000	0.000																
5	0.0	0.063	0.001	0.133	0.066	0.006	0.014	0.003	0.001	0.001	0.000	0.000	0.000																
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																

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TABLE II
SCATTERING FACTORS FOR THE 1000-1000 fm² CHANNEL
AT 2000 fm

| N.G. | 1.000 | 0.999 | 0.998 | 0.997 | 0.996 | 0.995 | 0.994 | 0.993 | 0.992 | 0.991 | 0.990 | 0.989 | 0.988 | 0.987 | 0.986 | 0.985 | 0.984 | 0.983 | 0.982 | 0.981 | 0.980 | 0.979 | 0.978 | 0.977 | 0.976 | 0.975 | 0.974 | 0.973 | 0.972 | 0.971 | 0.970 | 0.969 | 0.968 | 0.967 | 0.966 | 0.965 | 0.964 | 0.963 | 0.962 | 0.961 | 0.960 | 0.959 | 0.958 | 0.957 | 0.956 | 0.955 | 0.954 | 0.953 | 0.952 | 0.951 | 0.950 | 0.949 | 0.948 | 0.947 | 0.946 | 0.945 | 0.944 | 0.943 | 0.942 | 0.941 | 0.940 | 0.939 | 0.938 | 0.937 | 0.936 | 0.935 | 0.934 | 0.933 | 0.932 | 0.931 | 0.930 | 0.929 | 0.928 | 0.927 | 0.926 | 0.925 | 0.924 | 0.923 | 0.922 | 0.921 | 0.920 | 0.919 | 0.918 | 0.917 | 0.916 | 0.915 | 0.914 | 0.913 | 0.912 | 0.911 | 0.910 | 0.909 | 0.908 | 0.907 | 0.906 | 0.905 | 0.904 | 0.903 | 0.902 | 0.901 | 0.900 | 0.899 | 0.898 | 0.897 | 0.896 | 0.895 | 0.894 | 0.893 | 0.892 | 0.891 | 0.890 | 0.889 | 0.888 | 0.887 | 0.886 | 0.885 | 0.884 | 0.883 | 0.882 | 0.881 | 0.880 | 0.879 | 0.878 | 0.877 | 0.876 | 0.875 | 0.874 | 0.873 | 0.872 | 0.871 | 0.870 | 0.869 | 0.868 | 0.867 | 0.866 | 0.865 | 0.864 | 0.863 | 0.862 | 0.861 | 0.860 | 0.859 | 0.858 | 0.857 | 0.856 | 0.855 | 0.854 | 0.853 | 0.852 | 0.851 | 0.850 | 0.849 | 0.848 | 0.847 | 0.846 | 0.845 | 0.844 | 0.843 | 0.842 | 0.841 | 0.840 | 0.839 | 0.838 | 0.837 | 0.836 | 0.835 | 0.834 | 0.833 | 0.832 | 0.831 | 0.830 | 0.829 | 0.828 | 0.827 | 0.826 | 0.825 | 0.824 | 0.823 | 0.822 | 0.821 | 0.820 | 0.819 | 0.818 | 0.817 | 0.816 | 0.815 | 0.814 | 0.813 | 0.812 | 0.811 | 0.810 | 0.809 | 0.808 | 0.807 | 0.806 | 0.805 | 0.804 | 0.803 | 0.802 | 0.801 | 0.800 | 0.799 | 0.798 | 0.797 | 0.796 | 0.795 | 0.794 | 0.793 | 0.792 | 0.791 | 0.790 | 0.789 | 0.788 | 0.787 | 0.786 | 0.785 | 0.784 | 0.783 | 0.782 | 0.781 | 0.780 | 0.779 | 0.778 | 0.777 | 0.776 | 0.775 | 0.774 | 0.773 | 0.772 | 0.771 | 0.770 | 0.769 | 0.768 | 0.767 | 0.766 | 0.765 | 0.764 | 0.763 | 0.762 | 0.761 | 0.760 | 0.759 | 0.758 | 0.757 | 0.756 | 0.755 | 0.754 | 0.753 | 0.752 | 0.751 | 0.750 | 0.749 | 0.748 | 0.747 | 0.746 | 0.745 | 0.744 |<th
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

11	1.201	1.000	1.000
12	1.001	1.000	1.000
13	1.000	1.000	1.000
14	1.000	0.995	1.000
15	1.000	0.995	1.000
16	1.000	0.995	1.000
17	0.776	0.504	0.671
18	0.474	0.250	0.375
19	0.474	0.250	0.375
20	0.474	0.250	0.375
21	0.474	0.250	0.375
22	0.474	0.250	0.375
23	0.474	0.250	0.375
24	0.474	0.250	0.375
25	0.474	0.250	0.375
26	0.474	0.250	0.375
27	0.474	0.250	0.375

TABLE 11-11-10-35
RELATIVE SIGNIFICANT FACTORS

11	1.000	1.000	1.000
12	1.000	1.000	1.000
13	1.000	1.000	1.000
14	1.000	1.000	1.000
15	1.000	1.000	1.000
16	1.000	1.000	1.000
17	0.776	0.504	0.671
18	0.474	0.250	0.375
19	0.474	0.250	0.375
20	0.474	0.250	0.375
21	0.474	0.250	0.375
22	0.474	0.250	0.375
23	0.474	0.250	0.375
24	0.474	0.250	0.375
25	0.474	0.250	0.375
26	0.474	0.250	0.375
27	0.474	0.250	0.375

1	1.000	0.887	0.900
2	1.000	0.892	0.900
3	1.000	0.896	0.900
4	1.000	0.899	0.900
5	1.000	0.901	0.900
6	1.000	0.903	0.900
7	1.000	0.905	0.900
8	1.000	0.907	0.900
9	1.000	0.909	0.900
10	1.000	0.911	0.900
11	1.000	0.913	0.900
12	1.000	0.915	0.900
13	1.000	0.917	0.900
14	1.000	0.919	0.900
15	1.000	0.921	0.900
16	1.000	0.923	0.900
17	1.000	0.925	0.900
18	1.000	0.927	0.900
19	1.000	0.929	0.900
20	1.000	0.931	0.900
21	1.000	0.933	0.900
22	1.000	0.935	0.900
23	1.000	0.937	0.900
24	1.000	0.939	0.900
25	1.000	0.941	0.900
26	1.000	0.943	0.900
27	1.000	0.945	0.900

1	1.000	0.994	0.995
2	1.000	0.995	0.995
3	1.000	0.995	0.995
4	1.000	0.995	0.995
5	1.000	0.995	0.995
6	1.000	0.995	0.995
7	1.000	0.995	0.995
8	1.000	0.995	0.995
9	1.000	0.995	0.995
10	1.000	0.995	0.995
11	1.000	0.995	0.995
12	1.000	0.995	0.995
13	1.000	0.995	0.995
14	1.000	0.995	0.995
15	1.000	0.995	0.995
16	1.000	0.995	0.995
17	1.000	0.995	0.995
18	1.000	0.995	0.995
19	1.000	0.995	0.995
20	1.000	0.995	0.995
21	1.000	0.995	0.995
22	1.000	0.995	0.995
23	1.000	0.995	0.995
24	1.000	0.995	0.995
25	1.000	0.995	0.995
26	1.000	0.995	0.995
27	1.000	0.995	0.995

TABLE 11-11-10-35

WING	SIG. FRT	SIG. FRT	SIG. CAT	SIG. CAT	SIG. IN	SIG. IN	SIG. EL	SIG. EL	SIG. M	SIG. M
1	2.2290	0.0	0.0016	2.3515	2.3760	0.00160	0.00160	0.00160	0.00160	0.00160
2	0.0427	0.0	0.0	0.0107	3.0350	0.00030	0.00030	0.00030	0.00030	0.00030
3	0.9366	0.0	0.0	0.0392	3.1466	0.00045	0.00045	0.00045	0.00045	0.00045
4	7.2166	0.0	0.0	0.0352	3.0787	0.00050	0.00050	0.00050	0.00050	0.00050
5	7.1051	0.0	0.0	0.0171	2.6846	0.00050	0.00050	0.00050	0.00050	0.00050
6	0.8837	0.0	0.0	0.0161	1.7537	0.00050	0.00050	0.00050	0.00050	0.00050
7	0.9344	0.0	0.0	0.0208	0.8795	0.00050	0.00050	0.00050	0.00050	0.00050
8	7.4642	0.0	0.0	0.0277	0.5156	0.00050	0.00050	0.00050	0.00050	0.00050
9	4.2783	0.0	0.0	0.0151	0.1024	0.00050	0.00050	0.00050	0.00050	0.00050
10	9.3245	0.0	0.0	0.0404	0.0	0.00050	0.00050	0.00050	0.00050	0.00050
11	9.9633	0.0	0.0	0.0593	0.0	0.00050	0.00050	0.00050	0.00050	0.00050
12	10.6308	0.0	0.0	0.0823	0.0	0.00050	0.00050	0.00050	0.00050	0.00050
13	11.5403	0.0	0.0	0.1109	0.0	0.00050	0.00050	0.00050	0.00050	0.00050
14	12.5749	0.0	0.0	0.15752	0.0	0.00050	0.00050	0.00050	0.00050	0.00050
15	13.5291	0.0	0.0	0.21428	0.0	0.00050	0.00050	0.00050	0.00050	0.00050
16	14.7762	0.0	0.0	0.30802	0.0	0.00050	0.00050	0.00050	0.00050	0.00050
17	16.5864	0.0	0.0	0.45859	0.0	0.00050	0.00050	0.00050	0.00050	0.00050
18	19.2166	0.0	0.0	0.9503	0.0	0.00050	0.00050	0.00050	0.00050	0.00050
19	23.3184	0.0	0.0	10.3572	0.0	0.00050	0.00050	0.00050	0.00050	0.00050
20	29.6049	0.0	0.0	14.4041	0.0	0.00050	0.00050	0.00050	0.00050	0.00050
21	37.7937	0.0	0.0	22.2048	0.0	0.00050	0.00050	0.00050	0.00050	0.00050
22	68.1052	0.0	0.0	56.3979	0.0	0.00050	0.00050	0.00050	0.00050	0.00050
23	105.7937	0.0	0.0	12.2598	0.0	0.00050	0.00050	0.00050	0.00050	0.00050
24	92.0034	0.0	0.0	18.9217	0.0	0.00050	0.00050	0.00050	0.00050	0.00050
25	90.3744	0.0	0.0	16.4947	0.0	0.0				

INELASTIC SCATTERING FROM 1 TO 10 K

	0	1	2	3	4	5	6	7	8	9	10	11	12
1	0.144	0.077	0.241	0.014	0.511	0.011	0.160	0.110	0.008	0.005	0.002	0.001	0.000
2	0.194	0.207	0.528	0.730	0.621	0.381	0.192	0.048	0.016	0.005	0.001	0.000	0.000
3	0.297	0.525	0.603	0.666	0.611	0.263	0.125	0.052	0.021	0.008	0.003	0.002	0.001
4	0.559	1.051	0.611	0.281	0.271	0.114	0.056	0.021	0.008	0.003	0.001	0.001	0.000
5	0.684	1.110	0.512	0.203	0.081	0.315	0.015	0.006	0.003	0.001	0.000	0.000	0.000
6	0.323	0.684	0.273	0.124	0.371	0.356	0.316	0.266	0.212	0.162	0.110	0.066	0.046
7	0.185	0.400	0.177	0.341	0.317	0.307	0.005	0.003	0.001	0.000	0.000	0.000	0.000
8	0.0	0.229	0.193	0.264	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.022	0.367	0.314	0.004	0.003	0.001	0.000	0.000	0.000	0.000
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE I-SHIELDING FACTORS FOR 10 K AND 100 K

TEMPERATURE	TEMPERATURE											
	10 K	100 K										
1	1.000	0.997	0.993	0.991	1.000	0.997	1.000	0.997	1.000	0.993	1.000	0.999
2	1.000	0.994	0.995	0.997	1.000	0.994	1.000	0.994	1.000	0.994	1.000	0.994
3	1.000	0.992	0.996	0.994	1.000	0.992	1.000	0.992	1.000	0.992	1.000	0.992
4	1.000	0.991	0.990	0.991	1.000	0.991	1.000	0.991	1.000	0.991	1.000	0.991
5	1.000	0.993	0.990	0.993	1.000	0.993	1.000	0.993	1.000	0.993	1.000	0.993
6	1.000	0.990	0.989	0.989	1.000	0.990	1.000	0.990	1.000	0.990	1.000	0.990
7	1.000	0.989	0.988	0.988	1.000	0.989	1.000	0.989	1.000	0.989	1.000	0.989
8	1.000	0.988	0.987	0.987	1.000	0.988	1.000	0.988	1.000	0.988	1.000	0.988
9	1.000	0.987	0.986	0.986	1.000	0.987	1.000	0.987	1.000	0.987	1.000	0.987
10	1.000	0.986	0.985	0.985	1.000	0.986	1.000	0.986	1.000	0.986	1.000	0.986
11	1.000	0.985	0.984	0.984	1.000	0.985	1.000	0.985	1.000	0.985	1.000	0.985
12	1.000	0.986	0.982	0.982	1.000	0.986	1.000	0.986	1.000	0.986	1.000	0.986
13	1.000	0.989	0.983	0.981	1.000	0.989	1.000	0.989	1.000	0.989	1.000	0.989
14	1.000	0.986	0.972	0.963	1.000	0.986	1.000	0.986	1.000	0.986	1.000	0.986
15	1.000	0.985	0.957	0.950	1.000	0.985	1.000	0.985	1.000	0.985	1.000	0.985
16	1.000	0.986	0.986	0.986	1.000	0.986	1.000	0.986	1.000	0.986	1.000	0.986
17	1.000	0.988	0.981	0.980	1.000	0.988	1.000	0.988	1.000	0.988	1.000	0.988
18	1.000	0.987	0.793	0.446	1.000	0.987	1.000	0.987	1.000	0.987	1.000	0.987
19	1.000	0.986	0.712	0.363	1.000	0.986	1.000	0.986	1.000	0.986	1.000	0.986
20	1.000	0.989	0.605	0.275	1.000	0.989	1.000	0.989	1.000	0.989	1.000	0.989
21	1.000	0.970	0.492	0.171	0.999	0.970	1.000	0.970	1.000	0.970	1.000	0.970
22	1.000	0.710	0.320	0.166	0.999	0.710	1.000	0.710	1.000	0.710	1.000	0.710
23	1.000	0.462	0.192	0.074	0.551	0.462	0.551	0.462	0.551	0.462	0.551	0.462
24	1.000	0.352	0.200	0.079	0.551	0.352	0.551	0.352	0.551	0.352	0.551	0.352
25	1.000	0.314	0.171	0.102	0.551	0.314	0.551	0.314	0.551	0.314	0.551	0.314
26	1.000	0.222	0.093	0.045	0.551	0.222	0.551	0.222	0.551	0.222	0.551	0.222
27	1.000	0.922	0.632	0.401	0.551	0.922	0.632	0.922	0.632	0.922	0.632	0.922

CLASSIC SELF-SHIELDING FACTORS

Model	1
1	0.999
2	0.999
3	0.999
4	0.999
5	0.999
6	0.999
7	0.999
8	0.999
9	0

INELASTIC SCATTERING FROM ^{110}In

Energy	0	1	2	3	4	5	6	7	8	9	10	11
0.1%	0.001	0.045	0.270	0.588	0.674	0.508	0.291	0.140	0.051	0.025	0.010	0.006
0.2%	0.010	0.149	0.445	0.713	0.622	0.389	0.198	0.089	0.037	0.015	0.006	0.003
0.3%	0.040	0.303	0.619	0.670	0.481	0.267	0.126	0.054	0.022	0.008	0.003	0.002
0.4%	0.524	1.043	0.345	0.145	0.061	0.023	0.008	0.003	0.001	0.000	0.000	0.000
0.5%	0.429	0.829	0.342	0.084	0.043	0.024	0.010	0.005	0.003	0.001	0.000	0.000
0.6%	0.243	0.421	0.358	0.099	0.055	0.030	0.013	0.005	0.002	0.000	0.000	0.000
0.7%	0.158	0.243	0.198	0.074	0.063	0.032	0.009	0.000	0.000	0.000	0.000	0.000
0.8%	0.117	0.264	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.9%	0.0	0.107	0.078	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.0%	0.0	0.3	0.012	0.004	0.003	0.001	0.000	0.000	0.000	0.000	0.000	0.000
1.1%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.2%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.3%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.4%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.5%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.6%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.7%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.8%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.9%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.0%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.1%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.2%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.3%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.4%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.6%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.7%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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SELF-SHIELDING FACTORS & TOTAL SCATTERING FACTORS FOR ^{110}In AT 300°K

TEMPERATURE	300°K	OPERATION	9.00°	LAPLACE SELF-SHIELDING FACTORS
1	1.000	0.947	0.992	0.954
2	1.000	0.995	0.992	0.994
3	1.000	0.991	0.996	0.997
4	1.000	0.991	0.993	0.994
5	1.000	1.000	1.000	0.999
6	1.000	1.000	0.999	0.996
7	1.001	1.000	0.999	0.997
8	1.000	1.000	0.999	0.998
9	1.000	1.000	0.999	0.998
10	1.000	1.000	0.999	0.997
11	1.000	1.000	0.999	0.998
12	1.000	1.000	0.999	0.999

TEMPERATURE	216°K	OPERATION	9.00°	TOTAL SELF-SHIELDING FACTORS
1	1.000	0.947	0.992	0.954
2	1.000	0.995	0.992	0.994
3	1.000	0.991	0.996	0.997
4	1.000	0.991	0.993	0.994
5	1.000	1.000	1.000	0.999
6	1.000	1.000	0.999	0.996
7	1.001	1.000	0.999	0.997
8	1.000	1.000	0.999	0.998
9	1.000	1.000	0.999	0.998
10	1.000	1.000	0.999	0.997
11	1.000	1.000	0.999	0.998
12	1.000	1.000	0.999	0.999

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	1.000	1.000	0.999	0.999	0.999
13	0.991	0.991	0.991	0.991	0.991
14	0.991	0.991	0.991	0.991	0.991
15	0.991	0.991	0.991	0.991	0.991
16	0.910	0.639	0.445	0.394	0.354
17	0.994	0.941	0.870	0.339	0.261
18	0.793	0.449	0.317	0.287	0.243
19	0.722	0.386	0.274	0.243	0.216
20	0.598	0.299	0.160	0.116	0.084
21	0.342	0.272	0.164	0.154	0.125
22	0.704	0.411	0.317	0.302	0.261
23	0.340	0.190	0.146	0.131	0.116
24	0.999	0.998	0.998	0.975	0.975
25	0.283	0.120	0.076	0.061	0.051

CLASSIC SELF-SHIELDING FACTORS

MDG	1	1.000	0.997	0.995	0.992
2	1.000	0.995	0.992	0.988	0.984
3	1.000	0.992	0.992	0.992	0.988
4	1.000	0.991	0.989	0.988	0.988
5	1.000	1.000	1.000	1.000	1.000
6	1.000	1.000	0.999	0.998	0.996
7	1.000	1.000	0.999	0.998	0.997
8	1.000	1.000	0.999	0.998	0.997
9	1.000	1.000	0.999	0.999	0.999
10	1.000	1.000	0.999	0.999	0.998
11	1.000	1.000	1.000	0.999	0.998
12	1.000	1.000	1.000	0.999	0.998
13	1.000	1.000	1.000	1.000	1.000
14	0.991	0.947	0.927	0.909	0.892
15	0.978	0.847	0.805	0.595	0.216
16	0.456	0.775	0.584	0.522	0.564
17	0.923	0.692	0.705	0.682	0.452
18	0.362	0.417	0.357	0.354	0.354
19	0.843	0.553	0.396	0.354	0.354
20	0.741	0.431	0.282	0.216	0.216
21	0.677	0.411	0.295	0.254	0.254
22	0.882	0.705	0.682	0.562	0.562
23	0.392	0.417	0.357	0.354	0.354
24	1.000	0.999	0.999	0.999	0.999
25	0.598	0.367	0.314	0.243	0.243
26	0.118	0.051	0.041	0.041	0.041
27	0.998	0.993	0.993	0.993	0.993

J-214 234.06

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Temperature, °C.	Electrode		Current, A.	Voltage, V.								
	1	2										
27	0.352	0.423	0.277	0.248	0.224	0.277	0.244	0.224	0.224	0.224	0.224	0.224
28	0.356	0.427	0.277	0.249	0.225	0.277	0.245	0.225	0.225	0.225	0.225	0.225
29	0.360	0.431	0.277	0.250	0.226	0.277	0.246	0.226	0.226	0.226	0.226	0.226
30	0.364	0.435	0.277	0.251	0.227	0.277	0.247	0.227	0.227	0.227	0.227	0.227
31	0.368	0.439	0.277	0.252	0.228	0.277	0.248	0.228	0.228	0.228	0.228	0.228
32	0.372	0.443	0.277	0.253	0.229	0.277	0.249	0.229	0.229	0.229	0.229	0.229
33	0.376	0.447	0.277	0.254	0.230	0.277	0.250	0.230	0.230	0.230	0.230	0.230
34	0.380	0.451	0.277	0.255	0.231	0.277	0.251	0.231	0.231	0.231	0.231	0.231
35	0.384	0.455	0.277	0.256	0.232	0.277	0.252	0.232	0.232	0.232	0.232	0.232
36	0.388	0.459	0.277	0.257	0.233	0.277	0.253	0.233	0.233	0.233	0.233	0.233
37	0.392	0.463	0.277	0.258	0.234	0.277	0.254	0.234	0.234	0.234	0.234	0.234
38	0.396	0.467	0.277	0.259	0.235	0.277	0.255	0.235	0.235	0.235	0.235	0.235
39	0.400	0.471	0.277	0.260	0.236	0.277	0.256	0.236	0.236	0.236	0.236	0.236
40	0.404	0.475	0.277	0.261	0.237	0.277	0.257	0.237	0.237	0.237	0.237	0.237
41	0.408	0.479	0.277	0.262	0.238	0.277	0.258	0.238	0.238	0.238	0.238	0.238
42	0.412	0.483	0.277	0.263	0.239	0.277	0.259	0.239	0.239	0.239	0.239	0.239
43	0.416	0.487	0.277	0.264	0.240	0.277	0.260	0.240	0.240	0.240	0.240	0.240
44	0.420	0.491	0.277	0.265	0.241	0.277	0.261	0.241	0.241	0.241	0.241	0.241
45	0.424	0.495	0.277	0.266	0.242	0.277	0.262	0.242	0.242	0.242	0.242	0.242
46	0.428	0.499	0.277	0.267	0.243	0.277	0.263	0.243	0.243	0.243	0.243	0.243
47	0.432	0.503	0.277	0.268	0.244	0.277	0.264	0.244	0.244	0.244	0.244	0.244
48	0.436	0.507	0.277	0.269	0.245	0.277	0.265	0.245	0.245	0.245	0.245	0.245
49	0.440	0.511	0.277	0.270	0.246	0.277	0.266	0.246	0.246	0.246	0.246	0.246
50	0.444	0.515	0.277	0.271	0.247	0.277	0.267	0.247	0.247	0.247	0.247	0.247
51	0.448	0.519	0.277	0.272	0.248	0.277	0.268	0.248	0.248	0.248	0.248	0.248
52	0.452	0.523	0.277	0.273	0.249	0.277	0.269	0.249	0.249	0.249	0.249	0.249
53	0.456	0.527	0.277	0.274	0.250	0.277	0.270	0.250	0.250	0.250	0.250	0.250
54	0.460	0.531	0.277	0.275	0.251	0.277	0.271	0.251	0.251	0.251	0.251	0.251
55	0.464	0.535	0.277	0.276	0.252	0.277	0.272	0.252	0.252	0.252	0.252	0.252
56	0.468	0.539	0.277	0.277	0.253	0.277	0.273	0.253	0.253	0.253	0.253	0.253
57	0.472	0.543	0.277	0.278	0.254	0.277	0.274	0.254	0.254	0.254	0.254	0.254
58	0.476	0.547	0.277	0.279	0.255	0.277	0.275	0.255	0.255	0.255	0.255	0.255
59	0.480	0.551	0.277	0.280	0.256	0.277	0.276	0.256	0.256	0.256	0.256	0.256
60	0.484	0.555	0.277	0.281	0.257	0.277	0.277	0.257	0.257	0.257	0.257	0.257
61	0.488	0.559	0.277	0.282	0.258	0.277	0.278	0.258	0.258	0.258	0.258	0.258
62	0.492	0.563	0.277	0.283	0.259	0.277	0.279	0.259	0.259	0.259	0.259	0.259
63	0.496	0.567	0.277	0.284	0.260	0.277	0.280	0.260	0.260	0.260	0.260	0.260
64	0.500	0.571	0.277	0.285	0.261	0.277	0.281	0.261	0.261	0.261	0.261	0.261
65	0.504	0.575	0.277	0.286	0.262	0.277	0.282	0.262	0.262	0.262	0.262	0.262
66	0.508	0.579	0.277	0.287	0.263	0.277	0.283	0.263	0.263	0.263	0.263	0.263
67	0.512	0.583	0.277	0.288	0.264	0.277	0.284	0.264	0.264	0.264	0.264	0.264
68	0.516	0.587	0.277	0.289	0.265	0.277	0.285	0.265	0.265	0.265	0.265	0.265
69	0.520	0.591	0.277	0.290	0.266	0.277	0.286	0.266	0.266	0.266	0.266	0.266
70	0.524	0.595	0.277	0.291	0.267	0.277	0.287	0.267	0.267	0.267	0.267	0.267
71	0.528	0.599	0.277	0.292	0.268	0.277	0.288	0.268	0.268	0.268	0.268	0.268
72	0.532	0.603	0.277	0.293	0.269	0.277	0.289	0.269	0.269	0.269	0.269	0.269
73	0.536	0.607	0.277	0.294	0.270	0.277	0.290	0.270	0.270	0.270	0.270	0.270
74	0.540	0.611	0.277	0.295	0.271	0.277	0.291	0.271	0.271	0.271	0.271	0.271
75	0.544	0.615	0.277	0.296	0.272	0.277	0.292	0.272	0.272	0.272	0.272	0.272
76	0.548	0.619	0.277	0.297	0.273	0.277	0.293	0.273	0.273	0.273	0.273	0.273
77	0.552	0.623	0.277	0.298	0.274	0.277	0.294	0.274	0.274	0.274	0.274	0.274
78	0.556	0.627	0.277	0.299	0.275	0.277	0.295	0.275	0.275	0.275	0.275	0.275
79	0.560	0.631	0.277	0.300	0.276	0.277	0.296	0.276	0.276	0.276	0.276	0.276
80	0.564	0.635	0.277	0.301	0.277	0.277	0.297	0.277	0.277	0.277	0.277	0.277
81	0.568	0.639	0.277	0.302	0.278	0.277	0.298	0.278	0.278	0.278	0.278	0.278
82	0.572	0.643	0.277	0.303	0.279	0.277	0.299	0.279	0.279	0.279	0.279	0.279
83	0.576	0.647	0.277	0.304	0.280	0.277	0.300	0.280	0.280	0.280	0.280	0.280
84	0.580	0.651	0.277	0.305	0.281	0.277	0.301	0.281	0.281	0.281	0.281	0.281
85	0.584	0.655	0.277	0.306	0.282	0.277	0.302	0.282	0.282	0.282	0.282	0.282
86	0.588	0.659	0.277	0.307	0.283	0.277	0.303	0.283	0.283	0.283	0.283	0.283
87	0.592	0.663	0.277	0.308	0.284	0.277	0.304	0.284	0.284	0.284	0.284	0.284
88	0.596	0.667	0.277	0.309	0.285	0.277	0.305	0.285	0.285	0.285	0.285	0.285
89	0.600	0.671	0.277	0.310	0.286	0.277	0.306	0.286	0.286	0.286	0.286	0.286
90	0.604	0.675	0.277	0.311	0.287	0.277	0.307	0.287	0.287	0.287	0.287	0.287
91	0.608	0.679	0.277	0.312	0.288	0.277	0.308	0.288	0.288	0.288	0.288	0.288
92	0.612	0.683	0.277	0.313	0.289	0.277	0.309	0.289	0.289	0.289	0.289	0.289
93	0.616	0.687	0.277	0.314	0.290	0.277	0.310	0.290	0.290	0.290	0.290	0.290
94	0.620	0.691	0.277	0.315	0.291	0.277	0.311	0.291	0.291	0.291	0.291	0.291
95	0.624	0.695	0.277	0.316	0.292	0.277	0.312	0.292	0.292	0.292	0.292	0.292
96	0.628	0.699	0.277	0.317	0.293	0.277	0.313	0.293	0.293	0.293	0.293	0.293
97	0.632	0.703	0.277	0.318	0.294	0.277	0.314	0.294	0.294	0.294	0.294	0.294
98	0.636	0.707	0.277	0.319	0.295	0.277	0.315	0.295	0.295	0.295	0.295	0.295
99	0.640	0.711	0.277	0.320	0.296	0.277	0.316	0.296	0.296	0.296	0.296	0.296
100	0.644	0.715	0.277	0.321	0.297	0.277	0.317	0.297	0.297	0.297	0.297	0.297

ESTATE PLANNING

Trotter's
Vermont

פְּרָאַדְעָה כְּלִילָה מִזְמָרָה

TEMPERATURE	TEMPERATURE	TEMPERATURE	TEMPERATURE
320.	400.	400.	100.
320.	400.	400.	100.
320.	400.	400.	100.
320.	400.	400.	100.

לע-שמילת שיבת ר' מאיר עוזר

۳۰۰ دریان احمد

દુનિયાના માનવ-ક્રમ

19	0.997	0.970	0.857	0.651	1.000	1.000	0.953	0.701	1.000	1.000	1.000	0.717
20	0.993	0.945	0.743	0.469	0.999	0.992	0.840	0.479	1.000	1.000	0.906	0.459
21	0.988	0.914	0.684	0.444	0.996	0.969	0.784	0.467	1.000	1.000	0.857	0.458
22	0.967	0.809	0.484	0.250	0.984	0.892	0.550	0.234	0.994	0.952	0.590	0.193
23	0.936	0.723	0.507	0.427	0.957	0.791	0.581	0.192	0.970	0.840	0.643	0.546
24	0.840	0.550	0.373	0.329	0.879	0.616	0.432	0.394	0.908	0.678	0.503	0.453
25	0.762	0.439	0.279	0.245	0.832	0.492	0.308	0.269	0.875	0.558	0.355	0.309
26	0.761	0.403	0.633	0.583	0.968	0.832	0.662	0.609	0.970	0.859	0.694	0.644
27	0.445	0.254	0.208	0.202	0.445	0.254	0.208	0.202	0.445	0.254	0.208	0.202

TOTAL SELF-SHIELDING FACTORS

100

1	1.001	0.999	0.997	0.993	1.001	0.999	0.997	0.993	1.001	0.999	0.997	0.993
2	1.000	1.000	0.999	0.998	1.000	1.000	0.999	0.998	1.000	1.000	0.999	0.998
3	0.999	1.000	0.999	0.998	0.999	1.000	0.999	0.998	0.999	1.000	0.999	0.998
4	0.999	1.000	1.000	1.000	0.999	1.000	1.000	1.000	0.999	1.000	1.000	1.000
5	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
6	1.001	1.000	0.999	0.998	1.001	1.000	0.999	0.998	1.001	1.000	0.999	0.998
7	1.000	1.000	0.999	0.996	1.000	1.000	0.998	0.996	1.000	1.000	0.998	0.996
8	1.000	1.000	0.998	0.996	1.000	1.000	0.998	0.996	1.000	1.000	0.998	0.996
9	1.000	1.000	0.999	0.998	1.000	1.000	0.999	0.998	1.000	1.000	0.999	0.998
10	1.000	1.000	1.000	0.999	1.000	1.000	1.000	0.999	1.000	1.000	1.000	0.999
11	1.000	1.000	1.000	0.999	1.000	1.000	1.000	0.999	1.000	1.000	1.000	0.999
12	1.000	1.000	0.999	0.996	1.000	1.000	0.999	0.996	1.000	1.000	0.999	0.996
13	1.000	0.995	0.937	0.799	1.000	0.998	0.946	0.786	1.000	0.997	0.942	0.785
14	1.000	0.995	0.924	0.749	1.000	0.997	0.925	0.747	1.000	0.997	0.932	0.739
15	0.999	0.994	0.918	0.734	1.000	0.997	0.925	0.729	1.000	0.998	0.929	0.723
16	0.999	0.990	0.868	0.630	1.000	0.999	0.918	0.605	1.000	0.998	0.883	0.580
17	0.998	0.984	0.822	0.566	0.999	0.993	0.832	0.529	1.000	0.997	0.836	0.501
18	0.996	0.965	0.692	0.422	0.999	0.994	0.684	0.385	1.000	0.991	0.673	0.325
19	0.993	0.938	0.599	0.362	0.997	0.964	0.571	0.294	0.949	0.980	0.545	0.254
20	0.988	0.892	0.419	0.236	0.994	0.927	0.362	0.191	0.997	0.951	0.307	0.159
21	0.983	0.865	0.427	0.250	0.990	0.902	0.370	0.205	0.995	0.933	0.322	0.170
22	0.952	0.712	0.231	0.144	0.970	0.702	0.171	0.124	0.981	0.803	0.114	0.105
23	0.913	0.667	0.441	0.332	0.937	0.714	0.474	0.413	0.952	0.763	0.508	0.454
24	0.778	0.487	0.325	0.246	0.821	0.534	0.355	0.310	0.857	0.590	0.405	0.356
25	0.691	0.396	0.286	0.255	0.741	0.417	0.242	0.203	0.791	0.452	0.308	0.275
26	0.961	0.815	0.685	0.647	0.945	0.627	0.691	0.653	0.944	0.843	0.707	0.664
27	0.238	0.105	0.079	0.374	0.238	0.105	0.078	0.075	0.238	0.105	0.078	0.075

ELASTIC SELF-SHIELDING FACTORS

WUG

1

13	1.000	1.000	1.000	0.9449
14	1.000	1.000	1.030	0.9498
15	1.000	1.000	1.000	0.9498
16	1.000	1.000	0.999	0.9493
17	1.000	1.000	0.997	0.9847
18	1.000	0.998	0.999	0.9747
19	0.999	0.995	0.980	0.9422
20	0.999	0.991	0.969	0.9447
21	0.999	0.991	0.973	0.9599
22	0.995	0.975	0.942	0.9244
23	0.944	0.977	0.963	0.9599
24	0.970	0.924	0.800	0.5553
25	0.979	0.949	0.914	0.9300
26	0.998	0.995	0.988	0.9999
27	0.985	0.967	0.959	0.9597

1.000	1.000	1.000	1.000
1.000	1.000	1.000	1.000
1.000	1.000	1.000	1.000
1.000	1.000	1.000	0.9998
1.000	1.000	1.000	0.9995
1.000	1.000	0.997	0.998
1.000	0.999	0.991	0.968
1.000	0.997	0.978	0.949
0.999	0.996	0.950	0.961
0.998	0.984	0.948	0.924
0.996	0.983	0.964	0.964
0.975	0.932	0.407	0.901
0.924	0.952	0.935	0.931
0.998	0.995	0.949	0.986
0.995	0.967	0.959	0.957

1.000	1.000	1.000	1.000
1.000	1.000	1.000	1.000
1.000	1.000	1.000	1.000
1.000	1.000	1.000	1.000
1.000	1.000	1.000	0.998
1.000	1.000	1.000	0.985
1.000	1.000	0.996	0.971
1.000	1.000	0.985	0.949
1.000	0.998	0.985	0.962
0.999	0.999	0.993	0.921
0.997	0.987	0.973	0.668
0.980	0.939	0.916	0.911
0.987	0.957	0.938	0.933
0.994	0.995	0.989	0.980
0.995	0.987	0.959	0.957

MDG	SIG TEL	SIG FLS	SIG	SIG CNT	SIG IN	SIG OUT	SIG EL	CSI	CSIG & FLS
1	0.03425	0.03772	0.04495	0.05064	0.05262	0.05361	0.05664	0.06170	0.06250
2	0.7467	0.5947	0.6170	0.7114	0.72063	0.72241	0.7435	0.0160	0.0232
3	0.7315	0.5471	0.6130	0.6272	0.63664	0.64501	0.6551	0.0260	0.0255
4	0.41111	0.47849	0.50311	0.50533	0.51765	0.5446	0.5727	0.0360	0.0271
5	0.1618	0.3173	0.34496	0.37204	0.4095	0.45694	0.4734	0.0450	0.0406
6	0.0551	0.0114	0.0195	0.0253	0.03164	0.03691	0.03961	0.00730	0.0244
7	0.2155	0.0321	0.1500	0.1164	0.14932	0.16124	0.2043	0.0610	0.0423
8	0.4659	0.0291	0.3760	0.1465	0.1267	0.2107	0.2080	0.0670	0.1236
9	0.14957	0.0	0.0570	0.0195	0.04095	0.05293	0.05493	0.00730	0.01530
10	0.44137	0.0	0.3130	0.2155	0.30605	0.3816	0.4116	0.0914	0.0770
11	0.29847	0.0	0.1250	0.0386	0.0712	0.25750	0.0441	0.0910	0.2037
12	0.345306	0.0	0.3240	0.0478	0.0500	0.30622	0.0225	0.00830	0.2164
13	0.161625	0.0	0.3220	0.5710	0.0	0.6115	0.0112	0.00840	0.2281
14	0.09115	0.0	0.3210	0.7234	0.0	0.2091	0.0044	0.00840	0.2398
15	0.06429	0.0	0.3210	0.5021	0.0	0.1606	0.0026	0.00857	0.2564
16	0.18254	0.0	0.3200	1.0054	0.0	0.1601	0.0026	0.00850	0.2333
17	0.06016	0.0	0.3200	1.3935	0.0	0.2111	0.0026	0.00850	0.3076
18	0.219368	0.0	0.3200	1.7771	0.0	0.1597	0.0026	0.00850	0.3407
19	0.231469	0.0	0.3200	2.9157	0.0	0.2312	0.0026	0.00850	0.3419
20	0.05064	0.0	0.3200	3.0547	0.0	0.0476	0.0026	0.00850	0.2647
21	0.193317	0.0	0.3200	4.6043	0.0	0.020	0.0026	0.00850	0.2661
22	0.0623	0.0	0.3200	17.5936	0.0	0.020	0.0026	0.00850	0.4772
23	0.06973	0.0	0.3200	13.5505	0.0	0.020	0.0026	0.00850	0.1996
24	0.06779	0.0	0.3190	10.51859	0.0	0.020	0.0026	0.00850	0.6464
25	0.06997	0.0	0.3190	13.11390	0.0	0.020	0.0026	0.00850	0.1248
26	0.16164	0.0	0.3190	0.6173	0.0	0.020	0.0026	0.00850	0.0361

卷之三

SELF-SHIELDING FACTORS (WAVELENGTHING TO SIGMA 0.999999)

TEMPERATURE 300°

THERMATURE 900°

LAPLACE SELF-SHIELDING FACTORS

NUG	1	1.000	0.997	0.994	0.991	0.987	0.984	0.980
2	1.000	0.994	0.992	0.985	0.964	0.932	0.902	0.868
3	1.000	0.991	0.990	0.984	0.964	0.932	0.902	0.868
4	1.000	0.991	0.991	0.991	0.974	0.938	0.904	0.869
5	1.000	1.000	0.999	0.999	0.999	0.999	0.999	0.999
6	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
7	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
8	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
9	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
10	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
11	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
12	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
13	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
14	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
15	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
16	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
17	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
18	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
19	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
20	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
21	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
22	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
23	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
24	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
25	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
26	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
27	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

TOTAL SELF-SHIELDING FACTORS

NUG	1	1.000	0.999	0.997	0.993	0.990	0.987	0.983
2	1.000	1.000	0.999	0.997	0.993	0.990	0.987	0.983
3	1.000	1.000	0.999	0.997	0.993	0.990	0.987	0.983
4	1.000	1.000	1.000	0.999	0.995	0.990	0.986	0.982
5	1.000	1.000	1.000	1.000	0.999	0.995	0.990	0.986
6	1.000	1.000	1.000	1.000	1.000	0.999	0.995	0.990
7	1.000	1.000	1.000	1.000	1.000	0.999	0.995	0.990
8	1.000	1.000	1.000	1.000	1.000	0.999	0.995	0.990
9	1.000	1.000	1.000	1.000	1.000	0.999	0.995	0.990
10	1.000	1.000	1.000	1.000	1.000	0.999	0.995	0.990
11	1.000	1.000	1.000	1.000	1.000	0.999	0.995	0.990
12	1.000	1.000	1.000	1.000	1.000	0.999	0.995	0.990

ELASTIC SELF-SHIELDING FACTORS

NUG	1	1.000	0.997	0.995	0.992	0.989	0.985	0.982
2	1.000	1.000	0.997	0.995	0.992	0.989	0.985	0.982
3	1.000	1.000	0.997	0.995	0.992	0.989	0.985	0.982
4	1.000	1.000	0.997	0.995	0.992	0.989	0.985	0.982
5	1.000	1.000	1.000	0.999	0.995	0.992	0.989	0.985
6	1.000	1.000	1.000	1.000	0.999	0.995	0.992	0.989
7	1.000	1.000	1.000	1.000	1.000	0.999	0.995	0.992
8	1.000	1.000	1.000	1.000	1.000	0.999	0.995	0.992
9	1.000	1.000	1.000	1.000	1.000	0.999	0.995	0.992
10	1.000	1.000	1.000	1.000	1.000	0.999	0.995	0.992
11	1.000	1.000	1.000	1.000	1.000	0.999	0.995	0.992
12	1.000	1.000	1.000	1.000	1.000	0.999	0.995	0.992

NUG	1	1.000	0.999	0.997	0.993	0.990	0.987	0.983
2	1.000	1.000	0.999	0.997	0.993	0.990	0.987	0.983
3	1.000	1.000	0.999	0.997	0.993	0.990	0.987	0.983
4	1.000	1.000	1.000	0.999	0.997	0.993	0.990	0.987
5	1.000	1.000	1.000	1.000	0.999	0.997	0.993	0.987
6	1.000	1.000	1.000	1.000	1.000	0.999	0.997	0.993
7	1.000	1.000	1.000	1.000	1.000	0.999	0.997	0.993
8	1.000	1.000	1.000	1.000	1.000	0.999	0.997	0.993
9	1.000	1.000	1.000	1.000	1.000	0.999	0.997	0.993
10	1.000	1.000	1.000	1.000	1.000	0.999	0.997	0.993
11	1.000	1.000	1.000	1.000	1.000	0.999	0.997	0.993
12	1.000	1.000	1.000	1.000	1.000	0.999	0.997	0.993

NUG	1	1.000	0.997	0.995	0.992	0.989	0.985	0.982
2	1.000	1.000	0.997	0.995	0.992	0.989	0.985	0.982
3	1.000	1.000	0.997	0.995	0.992	0.989	0.985	0.982
4	1.000	1.000	0.997	0.995	0.992	0.989	0.985	0.982
5	1.000	1.000	1.000	0.999	0.997	0.994	0.990	0.986
6	1.000	1.000	1.000	1.000	0.99			

卷之三

SELF-SHIELDING FACTORS CORRESPONDING TO SIGMA 0=1000-100-10-1

TEMPERATURE 300.		TEMPERATURE 900.		TEMPERATURE 2100.				
MIC								
1	1.000	0.998	0.999	1.002	1.000	0.998	0.999	1.002
2	1.000	0.995	0.996	0.993	1.000	0.995	0.994	0.993
3	1.000	0.993	0.992	0.997	1.000	0.993	0.992	0.993
4	1.000	0.991	0.993	0.995	1.000	0.991	0.990	0.991
5	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000
6	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.000
7	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
8	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
9	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
10	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
11	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
12	0.995	0.995	0.995	0.944	0.995	0.995	0.995	0.995
13	1.000	0.999	0.980	0.913	1.000	1.000	0.995	0.994
14	0.999	0.996	0.962	0.884	1.000	1.000	0.999	0.942
15	0.999	0.989	0.930	0.831	1.000	0.997	0.961	0.864
16	0.997	0.977	0.887	0.774	0.999	0.990	0.930	0.815
17	0.995	0.959	0.835	0.713	0.997	0.972	0.885	0.755
18	0.990	0.929	0.765	0.642	0.945	0.958	0.830	0.696
19	0.982	0.883	0.679	0.554	0.990	0.925	0.750	0.607
20	0.968	0.828	0.603	0.475	0.930	0.874	0.651	0.493
21	0.954	0.790	0.588	0.495	0.967	0.838	0.637	0.527
22	0.917	0.714	0.532	0.473	0.942	0.763	0.577	0.513
23	0.822	0.552	0.361	0.303	0.853	0.577	0.374	0.309
24	0.716	0.327	0.206	0.163	0.757	0.394	0.215	0.169
25	0.655	0.311	0.190	0.167	0.689	0.325	0.194	0.170
26	0.995	0.968	0.917	0.896	0.995	0.968	0.917	0.896
27	0.509	0.372	0.338	0.333	0.509	0.372	0.338	0.333

CAPTURE SELF-SHIELDING FACTORS

WNG	1	1.000	0.999	1.004	1.016		1.000	0.999	1.004	1.016		1.000	0.999	1.004	1.016
2	1.000	0.993	0.993	0.991			1.000	0.995	0.993	0.991		1.000	0.995	0.993	0.991
3	1.000	0.993	0.996	1.001			1.000	0.993	0.996	1.001		1.000	0.993	0.996	1.001
4	1.000	0.991	0.991	0.993			1.000	0.991	0.991	0.993		1.000	0.991	0.991	0.993
5	1.000	1.000	0.997	0.993			1.000	1.000	0.997	0.993		1.000	1.000	0.997	0.993
6	1.000	0.993	0.996	0.991			1.000	0.999	0.996	0.991		1.000	0.999	0.996	0.991
7	1.000	1.000	0.998	0.995			1.000	1.000	0.998	0.995		1.000	1.000	0.998	0.995
8	1.000	1.000	0.999	0.999			1.000	1.000	0.999	0.999		1.000	1.000	0.999	0.999
9	1.000	1.000	0.999	0.999			1.000	1.000	0.999	0.999		1.000	1.000	0.999	0.999
10	1.000	1.000	0.999	0.999			1.000	1.000	0.999	0.999		1.000	1.000	0.999	0.999
11	1.000	1.000	0.999	0.998			1.000	1.000	0.999	0.998		1.000	1.000	0.999	0.999
12	0.994	0.994	0.993	0.992			0.994	0.994	0.993	0.993		1.000	1.000	0.999	0.999
13	1.000	1.000	1.000	0.960			1.000	1.000	1.000	1.000		0.994	0.994	0.993	0.993
14	1.000	0.995	0.978	0.925			1.000	1.000	1.000	1.000		1.000	1.000	1.000	1.000
15	0.998	0.997	0.933	0.854			1.000	1.000	1.000	0.977		1.000	1.000	1.000	1.000
16	0.996	0.967	0.862	0.757			1.000	0.996	0.971	0.907		1.000	1.000	1.000	1.000
17	0.991	0.933	0.767	0.640			0.997	0.977	0.901	0.804		1.000	1.000	1.000	0.942
18	0.984	0.888	0.669	0.534			0.993	0.948	0.811	0.690		0.999	0.983	0.926	0.832

TOTAL SELF-SHIELDING FACTORS

PLASTIC SELF-SHIELDING FACTORS

N	G	1	1.000	0.997	0.995	0.993	1	1.000	0.997	0.995	0.993	1	1.000	0.997	0.995	0.993
1		1.000	0.999	0.996	0.993		1.000	0.999	0.996	0.993		1.000	0.999	0.996	0.993	
2		1.000	0.999	0.996	0.993		1.000	0.999	0.996	0.993		1.000	0.999	0.996	0.993	
3		1.000	0.999	0.996	0.993		1.000	0.999	0.996	0.993		1.000	0.999	0.996	0.993	
4		1.000	0.999	0.996	0.993		1.000	0.999	0.996	0.993		1.000	0.999	0.996	0.993	
5		1.000	0.999	0.996	0.993		1.000	0.999	0.996	0.993		1.000	0.999	0.996	0.993	
6		1.000	1.000	0.999	0.998		1.000	1.000	0.999	0.998		1.000	1.000	0.999	0.998	
7		1.000	1.000	0.999	0.998		1.000	1.000	0.999	0.998		1.000	1.000	0.999	0.998	
8		1.000	1.000	0.999	0.998		1.000	1.000	0.999	0.998		1.000	1.000	0.999	0.998	
9		1.000	1.000	0.999	0.998		1.000	1.000	0.999	0.998		1.000	1.000	0.999	0.998	
10		1.000	1.000	1.000	0.999		1.000	1.000	1.000	0.999		1.000	1.000	1.000	0.999	
11		1.000	1.000	1.000	1.000		1.000	1.000	1.000	1.000		1.000	1.000	1.000	1.000	
12		0.999	0.999	1.000	1.000		0.999	0.999	1.000	1.000		0.999	0.999	1.000	1.000	

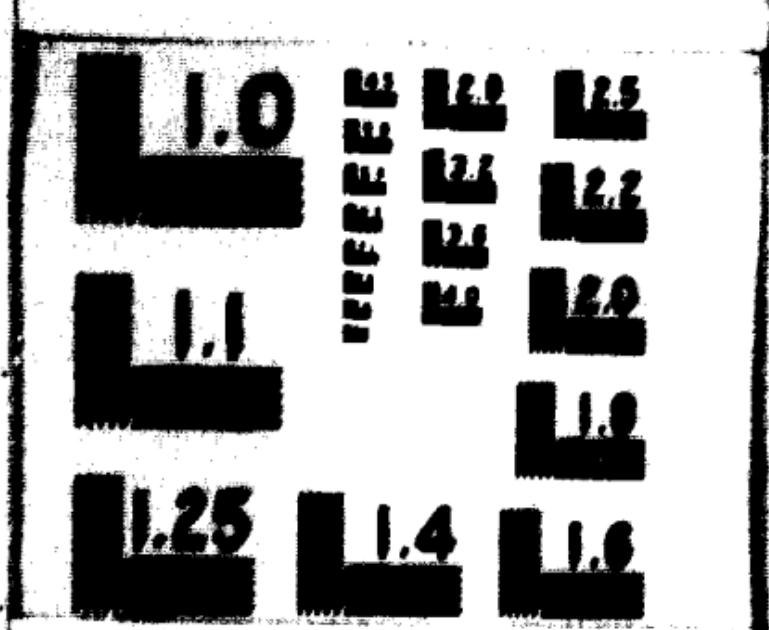
13 1.000 0.999 0.999 0.995
 14 1.000 0.997 0.986 0.972
 15 0.996 0.993 0.985 0.966
 16 0.994 0.989 0.985 0.946
 17 0.996 0.993 0.993 0.917
 18 0.995 0.994 0.993 0.943
 19 0.992 0.994 0.993 0.877
 20 0.972 0.982 0.982 0.767
 21 0.953 0.961 0.961 0.746
 22 0.983 0.977 0.977 0.620
 23 0.771 0.561 0.474 0.474
 24 0.920 0.842 0.842 0.795
 25 0.932 0.864 0.864 0.855
 26 0.994 0.993 0.993 0.994
 27 1.018 1.062 1.062 1.067

13 1.000 1.000 1.000 0.996
 14 1.000 1.000 1.000 0.998
 15 1.000 1.000 1.000 0.990
 16 1.000 1.000 1.000 0.974
 17 0.994 0.994 0.994 0.971
 18 0.994 0.994 0.994 0.950
 19 0.997 0.997 0.997 0.913
 20 0.995 0.995 0.995 0.865
 21 0.991 0.991 0.991 0.765
 22 0.983 0.983 0.983 0.621
 23 0.917 0.745 0.646 0.621
 24 0.919 0.749 0.641 0.602
 25 0.922 0.867 0.867 0.706
 26 0.966 0.966 0.966 0.855
 27 0.995 0.995 0.995 0.994

13 1.000 1.000 1.000 1.000
 14 1.000 1.000 1.000 1.000
 15 1.000 1.000 1.000 1.000
 16 1.000 1.000 1.000 0.996
 17 1.000 1.000 1.000 0.992
 18 1.000 1.000 1.000 0.974
 19 0.996 0.996 0.996 0.913
 20 0.999 0.999 0.999 0.865
 21 0.991 0.991 0.991 0.765
 22 0.983 0.983 0.983 0.621
 23 0.917 0.745 0.646 0.621
 24 0.919 0.749 0.641 0.602
 25 0.922 0.867 0.867 0.706
 26 0.966 0.966 0.966 0.855
 27 0.995 0.995 0.995 0.994

	SLG	RBI	SIG FIS	Nu	Sig Val	Sig In	Sig El	SLG El	RBI El	SIG El	Nu El	Sig Val El	Sig In El	Sig El El
1	4.0765	1.7454	4.0910	0	0.3174	1.1292	0	3.7407	0	0.8244	0	0.0237	0	0.0237
2	7.0031	1.4937	3.3650	0	0.0132	1.0331	0	2.1062	0	0.0411	0	0.7435	0	0.0236
3	7.7635	1.5621	3.1730	0	0.0131	1.0131	0	2.0690	0	0.0020	0	0.7294	0	0.0235
4	7.4224	1.5112	1.2953	0	0.0121	1.3112	0	2.0690	0	0.0020	0	0.7420	0	0.0237
5	7.0207	1.6124	2.4930	0	0.0131	2.0289	0	2.0289	0	0.0027	0	0.5654	0	0.0236
6	7.9237	0.7315	2.3930	0	0.1440	1.0313	0	5.4149	0	0.4930	0	0.0440	0	0.0446
7	5.0392	0.2134	2.3474	0	0.1631	1.3631	0	7.2194	0	0.3920	0	0.0540	0	0.0743
8	10.1172	0.1122	2.3140	0	0.1949	1.1672	0	8.7215	0	0.2668	0	0.0610	0	0.1672
9	11.2364	0.0429	2.1530	0	0.2339	0.9543	0	9.7653	0	0.1921	0	0.0680	0	0.1393
10	12.1477	0.0797	2.0993	0	0.2354	0.6617	0	11.1205	0	0.1864	0	0.0730	0	0.1629
11	12.9533	0.0372	2.0930	0	0.3709	0.2173	0	12.2774	0	0.0115	0	0.0770	0	0.1893
12	13.2379	0.0472	2.0930	0	0.4439	0.0	0	12.6569	0	0.0116	0	0.0660	0	0.2018
13	13.9549	0.0371	2.0929	0	0.2623	0.0	0	13.2314	0	0.0111	0	0.0610	0	0.2150
14	14.8652	0.0451	2.0910	0	0.7971	0.0	0	13.3029	0	0.0212	0	0.0620	0	0.2297
15	15.9662	0.1099	2.0910	0	0.4826	0.0	0	14.8734	0	0.0196	0	0.0630	0	0.2476
16	16.7974	0.1279	2.0900	0	1.2350	0.0	0	15.4345	0	0.0030	0	0.0640	0	0.2586
17	18.8162	0.1777	2.0900	0	1.7146	0.0	0	16.9394	0	0.0028	0	0.0640	0	0.2847
18	22.4962	0.2188	2.0900	0	2.4608	0.0	0	19.7494	0	0.0028	0	0.0640	0	0.3117
19	26.3411	0.3615	2.0900	0	3.9417	0.0	0	22.2109	0	0.0026	0	0.0640	0	0.3223
20	20.3433	0.0693	2.0900	0	4.2115	0.0	0	16.0375	0	0.0028	0	0.0640	0	0.2464
21	36.9467	0.0804	2.0900	0	7.8464	0.0	0	28.9777	0	0.0026	0	0.0640	0	0.3067
22	45.0267	0.1488	2.0900	0	16.2777	0.0	0	29.4003	0	0.0028	0	0.0640	0	0.3649
23	176.7058	0.6037	2.0900	0	75.2889	0.0	0	100.8711	0	0.0028	0	0.0640	0	0.3854
24	31.0656	0.1826	2.0900	0	20.7762	0.0	0	10.1698	0	0.0028	0	0.0640	0	0.3649
25	11.0199	0.0187	2.0900	0	0.9899	0.0	0	11.3237	0	0.0028	0	0.0640	0	1.4587
26	4493.4373	0.7849	2.0900	0	348.1665	0.0	0	3.4317	0	0.0028	0	0.0640	0	0.3853
27	3 1019.5659	0.2021	2.0900	0	0.0	0	0	0.0	0	0.0028	0	0.0640	0	0.3853





13	1.000	0.999	0.998	0.985
14	1.000	0.997	0.988	0.972
15	0.999	0.994	0.985	0.966
16	0.994	0.983	0.945	0.946
17	0.984	0.983	0.945	0.917
18	0.996	0.973	0.916	0.894
19	0.999	0.968	0.915	0.897
20	0.999	0.944	0.879	0.871
21	0.972	0.882	0.745	0.717
22	0.953	0.881	0.761	0.746
23	0.883	0.707	0.620	0.593
24	0.771	0.561	0.479	0.452
25	0.420	0.382	0.300	0.294
26	0.932	0.876	0.840	0.573
27	0.499	0.992	0.988	0.384
28	1.018	1.062	1.064	1.067

TEMPERATURE	300.	400.	400.	400.	400.
TEMPERATURE F	572.	638.	638.	638.	638.
TEMPERATURE F	100.	100.	100.	100.	100.

SCHOOLING AND INHERITANCE

19 0.879 0.552 0.304 0.236
20 0.881 0.556 0.289 0.214
21 0.729 0.370 0.164 0.119
22 0.567 0.199 0.074 0.055
23 0.291 0.085 0.035 0.026
24 0.439 0.128 0.056 0.046
25 0.999 0.999 0.942 0.931
26 0.076 0.022 0.009 0.007
27 0.632 0.416 0.367 0.361

TOTAL SELF-SHIELDING FACTORS

19	0.922	0.644	0.376	0.243
20	0.923	0.656	0.365	0.270
21	0.794	0.455	0.212	0.145
22	0.659	0.262	0.096	0.065
23	0.366	0.102	0.038	0.027
24	0.540	0.159	0.080	0.048
25	0.999	0.942	0.962	0.931
26	0.077	0.022	0.009	0.007
27	0.632	0.416	0.367	0.361

1 1.000 0.999 0.998 0.954
2 1.000 1.000 0.999 0.998
3 0.999 1.000 1.000 0.999
4 0.999 1.000 1.000 0.999
5 1.001 1.000 1.000 0.999
6 1.001 1.000 1.000 0.999
7 1.000 1.000 0.999 0.998
8 1.000 1.000 0.999 0.997
9 1.000 1.000 0.999 0.998
10 1.000 1.000 0.999 0.998
11 1.000 1.000 1.000 0.999
12 0.997 0.719 0.913 0.859
13 0.995 0.982 0.877 0.822
14 0.813 0.520 0.436 0.224
15 0.981 0.935 0.810 0.782
16 0.981 0.892 0.771 0.728
17 0.971 0.857 0.730 0.704
18 0.944 0.785 0.657 0.574
19 0.872 0.663 0.497 0.364
20 0.813 0.520 0.436 0.224
21 0.824 0.593 0.432 0.186
22 0.579 0.356 0.266 0.163
23 0.440 0.289 0.242 0.224
24 0.179 0.387 0.263 0.146
25 0.420 0.286 0.253 0.101
26 0.999 0.697 0.986 0.978
27 0.936 0.010 0.009 0.005

PLASTIC SHIFT-SHIELDING FACTORS

1 1.000 0.999 0.997 0.996 0.993
2 1.000 0.995 0.994 0.993 0.993
3 1.000 0.990 0.991 0.990 0.990
4 1.000 0.991 0.992 0.991 0.991
5 1.000 1.000 0.999 0.998 0.998
6 1.000 1.000 0.999 0.998 0.998
7 1.000 1.000 0.999 0.998 0.998
8 1.000 1.000 0.999 0.998 0.998
9 1.000 1.000 0.999 0.998 0.998
10 1.000 1.000 0.999 0.998 0.998
11 1.000 1.000 0.999 0.998 0.998
12 1.000 1.000 0.999 0.998 0.998
13 1.000 1.000 0.999 0.998 0.998
14 1.000 1.000 0.999 0.998 0.998
15 1.000 1.000 0.999 0.998 0.998

1	1.000	0.999	0.998	0.994
2	1.000	1.000	0.999	0.998
3	0.999	1.000	1.000	0.999
4	0.999	1.000	1.000	0.999
5	1.001	1.000	1.000	0.999
6	1.001	1.000	1.000	0.999
7	1.000	1.000	1.000	0.999
8	1.000	1.000	1.000	0.999
9	1.000	1.000	1.000	0.999
10	1.000	1.000	1.000	0.999
11	1.000	1.000	1.000	0.999
12	1.000	1.000	1.000	0.999
13	1.000	1.000	1.000	0.999
14	1.000	1.000	1.000	0.999
15	1.000	1.000	1.000	0.999
16	1.000	1.000	1.000	0.999
17	1.000	1.000	1.000	0.999
18	1.000	1.000	1.000	0.999
19	1.000	1.000	1.000	0.999
20	1.000	1.000	1.000	0.999
21	1.000	1.000	1.000	0.999
22	1.000	1.000	1.000	0.999
23	1.000	1.000	1.000	0.999
24	1.000	1.000	1.000	0.999
25	1.000	1.000	1.000	0.999
26	1.000	1.000	1.000	0.999
27	1.000	1.000	1.000	0.999

1 1.000 0.999 0.998 0.994 0.993
2 1.000 0.999 0.998 0.997 0.993
3 1.000 0.999 0.998 0.997 0.993
4 1.000 0.999 0.998 0.997 0.993
5 1.000 0.999 0.998 0.997 0.993
6 1.000 0.999 0.998 0.997 0.993
7 1.000 0.999 0.998 0.997 0.993
8 1.000 0.999 0.998 0.997 0.993
9 1.000 0.999 0.998 0.997 0.993
10 1.000 0.999 0.998 0.997 0.993
11 1.000 0.999 0.998 0.997 0.993
12 1.000 0.999 0.998 0.997 0.993
13 1.000 0.999 0.998 0.997 0.993
14 1.000 0.999 0.998 0.997 0.993
15 1.000 0.999 0.998 0.997 0.993
16 1.000 0.999 0.998 0.997 0.993
17 1.000 0.999 0.998 0.997 0.993
18 1.000 0.999 0.998 0.997 0.993
19 1.000 0.999 0.998 0.997 0.993
20 1.000 0.999 0.998 0.997 0.993
21 1.000 0.999 0.998 0.997 0.993
22 1.000 0.999 0.998 0.997 0.993
23 1.000 0.999 0.998 0.997 0.993
24 1.000 0.999 0.998 0.997 0.993
25 1.000 0.999 0.998 0.997 0.993
26 1.000 0.999 0.998 0.997 0.993
27 1.000 0.999 0.998 0.997 0.993

1	1.000	0.999	0.998	0.994	0.993
2	1.000	0.999	0.998	0.994	0.993
3	1.000	0.999	0.998	0.994	0.993
4	1.000	0.999	0.998	0.994	0.993
5	1.000	0.999	0.998	0.994	0.993
6	1.000	0.999	0.998	0.994	0.993
7	1.000	0.999	0.998	0.994	0.993
8	1.000	0.999	0.998	0.994	0.993
9	1.000	0.999	0.998	0.994	0.993
10	1.000	0.999	0.998	0.994	0.993
11	1.000	0.999	0.998	0.994	0.993
12	1.000	0.999	0.998	0.994	0.993
13	1.000	0.999	0.998	0.994	0.993
14	1.000	0.999	0.998	0.994	0.993
15	1.000	0.999	0.998	0.994	0.993
16	1.000	0.999	0.998	0.994	0.993
17	1.000	0.999	0.998	0.994	0.993
18	1.000	0.999	0.998	0.994	0.993
19	1.000	0.999	0.998	0.994	0.993
20	1.000	0.999	0.998	0.994	0.993
21	1.000	0.999	0.998	0.994	0.993
22	1.000	0.999	0.998	0.994	0.993
23	1.000	0.999	0.998	0.994	0.993
24	1.000	0.999	0.998	0.994	0.993
25	1.000	0.999	0.998	0.994	0.993
26	1.000	0.999	0.998	0.994	0.993
27	1.000	0.999	0.998	0.994	0.993

1	1.000	0.999	0.998	0.994	0.993
2	1.000	0.999	0.998	0.994	0.993
3	1.000	0.999	0.998	0.994	0.993
4	1.000	0.999	0.998	0.994	0.993
5	1.000	0.999	0.998	0.994	0.993
6	1.000	0.999	0.998	0.994	0.993
7	1.000	0.999	0.998	0.994	0.993
8	1.000	0.999	0.998	0.994	0.993
9	1.000	0.999	0.998	0.994	0.993
10	1.000	0.999	0.998	0.994	0.993
11	1.000	0.999	0.998	0.994	0.993
12	1.000	0.999	0.998	0.994	0.993
13	1.000	0.999	0.998	0.994	0.993
14	1.000	0.999	0.998	0.994	0.993
15	1.000	0.999	0.998	0.994	0.993
16	1.000	0.999	0.998	0.994	0.993
17	1.000	0.999	0.998	0.994	0.993
18	1.000	0.999	0.998	0.994	0.993
19	1.000	0.999	0.998	0.994	0.993
20	1.000	0.999	0.998	0.994	0.993
21	1.000	0.999	0.998	0.994	0.993
22	1.000	0.999	0.998	0.994	0.993
23	1.000	0.999	0.998	0.994	0.993
24	1.000	0.999	0.998	0.994	0.993
25	1.000	0.999	0.998	0.994	0.993
26	1.000	0.999	0.998	0.994	0.993
27	1.000	0.999	0.998	0.994	0.993

1	1.000	0.999	0.998	0.994	0.993
2	1.000	0.999	0.998	0.994	0.993
3	1.000	0.999	0.998	0.994	0.993
4	1.000	0.999	0.998	0.994	0.993
5	1.000	0.999	0.998	0.994	0.993
6	1.000	0.999	0.998	0.994	0.993
7	1.000	0.999	0.998	0.994	0.993
8	1.000</				

SELF-SHIELDING FACTORS (LINEAR SPUNNING; TO SIGMA = 100.0, 130.0, 160.0)

TEMPERATURE 100.
TEMP NATURE 400.
FISSION SELF-SHIELDING FACTORS

NUG	1	1.000 0.998 0.999 1.002	2	1.000 0.995 0.994 0.994	3	1.000 0.993 0.992 0.993	4	1.000 0.991 0.990 0.990	5	1.000 1.000 1.000 1.001	6	1.000 1.000 1.000 1.000	7	1.000 1.000 1.000 1.000	8	1.000 1.000 1.000 1.000	9	1.000 1.000 1.000 1.000	10	1.000 1.000 1.000 1.000	11	0.995 0.995 0.992 0.992	12	1.000 1.000 0.997 0.913	13	1.000 1.000 0.995 0.895	14	1.000 1.000 0.992 0.914	15	1.000 1.000 0.998 0.991	16	0.949 0.995 0.946 0.830	17	0.998 0.982 0.894 0.750	18	0.995 0.962 0.831 0.678	19	0.415 0.246 0.186 0.176

CAPTURE SELF-SHIELDING FACTORS

NUG	1	1.000 0.997 0.995 0.990	2	1.000 0.995 0.993 0.990	3	1.000 0.993 0.993 0.994	4	1.000 0.991 0.990 0.990	5	1.000 1.000 1.001 1.001	6	1.000 1.000 1.000 1.000	7	1.000 1.000 1.000 1.000	8	1.000 1.000 1.000 1.000	9	1.000 1.000 1.000 1.000	10	1.000 1.000 1.000 1.000	11	0.994 0.994 0.992 0.954	12	1.000 1.000 0.997 0.913	13	1.000 1.000 0.995 0.895	14	1.000 1.000 0.992 0.914	15	1.000 1.000 0.998 0.991	16	0.949 0.995 0.946 0.830	17	0.998 0.982 0.894 0.750	18	0.995 0.962 0.831 0.678	19	0.415 0.246 0.186 0.176

TOTAL SELF-SHIELDING FACTORS

NUG	1	1.000 0.999 0.998 0.997	2	1.000 0.999 0.998 0.997	3	1.000 0.999 0.998 0.997	4	1.000 0.999 0.998 0.997	5	1.000 0.999 0.998 0.997	6	1.000 0.999 0.998 0.997	7	1.000 0.999 0.998 0.997	8	1.000 0.999 0.998 0.997	9	1.000 0.999 0.998 0.997	10	1.000 0.999 0.998 0.997	11	0.999 0.999 0.998 0.997	12	1.000 0.999 0.998 0.997	13	1.000 0.999 0.998 0.997	14	1.000 0.999 0.998 0.997	15	1.000 0.999 0.998 0.997	16	1.000 0.999 0.998 0.997	17	1.000 0.999 0.998 0.997	18	1.000 0.999 0.998 0.997	19	1.000 0.999 0.998 0.997	20	0.995 0.995 0.995 0.995	21	0.997 0.997 0.997 0.997	22	0.998 0.998 0.998 0.998	23	0.999 0.999 0.999 0.999	24	0.999 0.999 0.999 0.999	25	0.999 0.999 0.999 0.999	26	0.999 0.999 0.999 0.999	27	0.999 0.999 0.999 0.999

PLASTIC SELF-SHIELDING FACTORS

NUG	1	1.000 0.999 0.998 0.997	2	1.000 0.999 0.998 0.997	3	1.000 0.999 0.998 0.997	4	1.000 0.999 0.998 0.997	5	1.000 0.999 0.998 0.997	6	1.000 0.999 0.998 0.997	7	1.000 0.999 0.998 0.997	8	1.000 0.999 0.998 0.997	9	1.000 0.999 0.998 0.997	10	1.000 0.999 0.998 0.997	11	0.999 0.999 0.998 0.997	12	1.000 0.999 0.998 0.997	13	1.000 0.999 0.998 0.997	14	1.000 0.999 0.998 0.997	15	1.000 0.999 0.998 0.997	16	1.000 0.999 0.998 0.997	17	1.000 0.999 0.998 0.997	18	1.000 0.999 0.998 0.997	19	1.000 0.999 0.998 0.997	20	0.995 0.995 0.995 0.995	21	0.997 0.997 0.997 0.997	22	0.998 0.998 0.998 0.998	23	0.999 0.999 0.999 0.999	24	0.999 0.999 0.999 0.999	25	0.999 0.999 0.999 0.999	26	0.999 0.999 0.999 0.999	27	0.999 0.999 0.999 0.999

| NUG |<th
| --- |

13	1.000	1.000	0.998	0.998
14	1.000	1.000	0.998	0.991
15	1.000	0.999	0.995	0.947
16	1.000	0.998	0.988	0.675
17	0.999	0.995	0.980	0.462
18	0.999	0.993	0.973	0.457
19	0.998	0.987	0.959	0.444
20	0.993	0.960	0.904	0.875
21	0.987	0.932	0.862	0.830
22	0.958	0.948	0.907	0.888
23	0.941	0.969	0.946	0.940
24	0.931	0.870	0.847	0.942
25	0.774	0.941	0.919	0.914
26	0.939	0.982	0.982	0.982
27	1.000	1.001	1.003	1.000

NO	SIG.ELT	SIG.FIN	NU	SIG.GAT	SIG.EN	SIG.EI	MU.EL	LSI	SIG.R.FIN
1	6.6115	1.9664	3.64620	2.62140	1.9623	3.142e	0.44878	0.00090	0.0127
2	7.6203	1.7570	3.64610	2.60087	1.9752	3.64690	0.4587	0.00120	0.0125
3	7.33346	1.65970	3.62260	2.60271	1.9610	3.7542	0.47683	0.00140	0.0159
4	6.9792	1.5587	3.62593	2.60418	1.9723	3.4251	0.46600	0.00240	0.0222
5	7.1541	1.3580	2.62590	2.62550	1.9490	4.5324	0.45391	0.00320	0.0340
6	7.7100	0.5353	2.60020	2.61061	1.9259	3.3437	0.43318	0.00500	0.0580
7	8.5472	0.1321	2.60603	2.61152	1.9174	7.1693	0.43122	0.00570	0.0821
8	6.5466	0.0495	2.6020	2.61236	0.9261	8.4472	0.2386	0.00630	0.1071
9	10.6764	0.0323	2.60230	2.61411	0.9754	4.4214	0.1710	0.00640	0.1354
10	11.8541	0.0294	2.60200	2.61848	0.4334	11.2110	0.1160	0.00740	0.1656
11	13.1263	0.0374	2.60160	2.63015	0.0464	12.6425	0.0745	0.00770	0.1956
12	14.4751	0.0456	2.60130	2.64145	0.0	14.3120	0.0465	0.00790	0.2226
13	15.9067	0.0540	2.60110	2.65041	0.0	15.1490	0.0268	0.00810	0.2488
14	17.2964	0.0533	2.60103	2.66510	0.0	16.5614	0.0079	0.00830	0.2742
15	19.1572	0.0	2.60390	2.64540	0.0	18.4620	0.0028	0.00830	0.3040
16	21.5932	0.0	2.60390	2.61331	0.0	20.5501	0.0024	0.00830	0.3413
17	24.8872	0.0	2.60360	2.65792	0.0	23.4600	0.0024	0.00830	0.3872
18	28.9750	0.0	2.60340	2.62935	0.0	26.6315	0.0024	0.00830	0.4432
19	34.2064	0.0	2.60300	2.64163	0.0	30.7401	0.0024	0.00830	0.5114
20	40.9117	0.0	2.60300	2.61487	0.0	35.7630	0.0024	0.00830	0.5940
21	53.3206	0.0	2.60300	2.67361	0.0	44.5645	0.0024	0.00830	0.7406
22	29.6070	0.0	2.60300	2.68075	0.0	19.7995	0.0024	0.00830	0.1644
23	97.0522	0.0	2.60300	2.61368	0.0	62.4154	0.0024	0.00830	0.5225
24	12.3886	0.0	2.60300	2.64640	0.0	9.4246	0.0024	0.00830	0.0824
25	12.0913	0.0	2.60300	2.64298	0.0	11.6614	0.0024	0.00830	0.0969
26	582.9810	0.0	2.60300	2.622349	0.0	50.7463	0.0024	0.00830	0.2107
27	73.6175	0.0	2.60300	2.622890	0.0	8.3285	0.0024	0.00830	0.0078

	19	20	21	22	23	24	25	26	27
0.699	0.430	0.356	0.341	0.355	0.271	0.287	0.270	0.199	0.126
0.595	0.354	0.257	0.287	0.270	0.199	0.149	0.156	0.065	0.035
0.486	0.248	0.170	0.207	0.193	0.133	0.100	0.100	0.035	0.019
0.599	0.415	0.465	0.465	0.465	0.400	0.379	0.379	0.333	0.333
0.224	0.133	0.100	0.100	0.100	0.079	0.079	0.079	0.033	0.033
0.947	0.846	0.813	0.813	0.813	0.789	0.789	0.789	0.691	0.691
0.999	0.948	0.911	0.911	0.911	0.891	0.891	0.891	0.845	0.845
0.081	0.043	0.033	0.033	0.033	0.027	0.027	0.027	0.011	0.011
0.883	0.542	0.327	0.327	0.327	0.278	0.278	0.278	0.244	0.244

2

0.761	0.464	0.105	0.348	0.812	0.506	0.374	0.356
0.661	0.374	0.392	0.240	0.721	0.404	0.311	0.267
0.544	0.248	0.403	0.126	0.603	0.311	0.211	0.140
0.665	0.345	0.471	0.342	0.710	0.458	0.374	0.152
0.243	0.137	0.101	0.074	0.278	0.142	0.102	0.075
0.963	0.863	0.415	0.807	0.974	0.881	0.811	0.808
0.999	0.934	0.491	0.485	0.994	0.998	0.991	0.985
0.080	0.041	0.031	0.031	0.091	0.047	0.031	0.031
0.883	0.542	0.127	0.284	0.693	0.542	0.327	0.284

ELASTIC SELF-SHIELDING FACTORS

102

10

INELASTIC SCATTERING FROM 1 TO 10 Å

ESTUARIES AND COASTS (2009) 32:103–112
DOI 10.1007/s12237-008-9220-0

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FINAL SETTLEMENT FACTORS

19 1.000 0.999 0.994 0.990
 20 1.000 1.000 0.999 0.999
 21 1.000 1.000 1.000 1.000
 22 0.999 1.000 1.000 1.000
 23 1.000 1.000 1.000 1.000
 24 0.999 1.000 1.000 1.000
 25 0.999 1.000 1.000 1.000
 26 0.999 1.000 1.000 1.000
 27 1.013 0.856 0.282 0.0

ELASTIC SELF-SHIELDING FACTORS

NO.6

1 1.000 0.997 0.996 0.992
 2 1.000 0.995 0.994 0.994
 3 1.000 0.997 0.996 0.995
 4 1.000 0.996 0.994 0.991
 5 1.000 1.000 0.997 0.984
 6 1.000 0.999 0.993 0.969
 7 1.000 0.998 0.987 0.941
 8 1.000 0.996 0.972 0.841
 9 0.998 0.985 0.908 0.665
 10 0.998 0.978 0.887 0.690
 11 1.000 0.999 0.992 0.973
 12 0.983 0.375 0.611 0.261
 13 0.999 0.994 0.950 0.430
 14 1.000 0.997 0.979 0.943
 15 0.998 0.982 0.915 0.842
 16 1.000 0.999 0.996 0.990
 17 1.000 1.000 0.997 0.993
 18 1.000 1.000 0.998 0.995
 19 1.000 1.000 1.000 0.999
 20 1.000 1.000 1.000 0.999
 21 1.000 1.000 1.000 1.000
 22 1.000 1.000 1.000 1.000
 23 1.000 1.000 1.000 1.000
 24 1.000 1.000 1.000 1.000
 25 1.000 1.000 1.000 1.000
 26 1.000 1.000 1.000 1.000
 27 0.992 0.926 0.556 0.301

L-1 52.000

	MIGS	SIG E1/E	SIG E2/S	NU	SIG CAT	SIG IN	SIG EL	NU EL	CST	SIG K EL
1	2.0-67	0.0	0.0	0.0	0.0179	0.0	0.0644	0.701e	0.0112e	0.0576
2	0.5249	0.0	0.0	0.0	0.0052	0.0	0.5219	0.734e	0.00580	0.0712
3	2.8412	0.0	0.0	0.0	0.0029	0.1377	0.7511	0.5224	0.01410	0.1093
4	3.1500	0.0	0.0	0.0	0.0029	0.4438	0.7632	0.5140	0.02610	0.1409
5	2.8075	0.0	0.0	0.0	0.0134	0.0	0.4044	0.198e	0.01060	0.1707
6	2.3083	0.0	0.0	0.0	0.0039	0.0	0.6044	0.2203	0.0296e	0.1658
7	3.1701	0.0	0.0	0.0	0.0039	0.0	0.1062	0.210e	0.02720	0.1847
8	2.7671	0.0	0.0	0.0	0.0040	0.0	0.7641	0.2118	0.02950	0.1653
9	5.2283	0.0	0.0	0.0	0.0056	0.0	0.2227	0.2004	0.03030	0.3170
10	4.5326	0.0	0.0	0.0	0.0054	0.0	0.5277	0.0414	0.00650	0.0592
11	5.7142	0.0	0.0	0.0	0.0045	0.0	0.7097	0.0	0.0	0.0
12	2.49980	0.0	0.0	0.0	0.0054	0.0	0.4421	0.0	0.0	0.0
13	3.0113	0.0	0.0	0.0	0.0089	0.0	0.0024	0.0	0.0	0.0
14	6.4683	0.0	0.0	0.0	0.0150	0.0	0.4534	0.0	0.0	0.0
15	17.4925	0.0	0.0	0.0	0.1232	0.0	17.3696	0.0	0.0	0.0
16	18.7687	0.0	0.0	0.0	0.1435	0.0	19.6253	0.0	0.0	0.0
17	6.5219	0.0	0.0	0.0	0.1394	0.0	0.3830	0.0	0.0	0.0
18	6.5432	0.0	0.0	0.0	0.1614	0.0	0.3816	0.0	0.0	0.0
19	6.44276	0.0	0.0	0.0	0.1240	0.0	0.3036	0.0	0.0	0.0
20	6.44224	0.0	0.0	0.0	0.1230	0.0	0.2994	0.0	0.0	0.0
21	6.44205	0.0	0.0	0.0	0.1268	0.0	0.2937	0.0	0.0	0.0
22	6.44212	0.0	0.0	0.0	0.1395	0.0	0.2817	0.0	0.0	0.0
23	6.44286	0.0	0.0	0.0	0.1659	0.0	0.2627	0.0	0.0	0.0
24	6.3932	0.0	0.0	0.0	0.1362	0.0	0.2570	0.0	0.0	0.0
25	6.3878	0.0	0.0	0.0	0.1716	0.0	0.2162	0.0	0.0	0.0
26	6.5224	0.0	0.0	0.0	0.3741	0.0	0.1453	0.0	0.0	0.0
27	13.7029	0.0	0.0	0.0	11.0793	0.0	2.6736	0.0	0.0	0.0

INELASTIC SCATTERING FROM 1 TO 10K

	0	1	2	3	4	5	6	7	8	9	10	11	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.045	0.084	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.169	0.139	0.071	0.034	0.016	0.008	0.003	0.002	0.001	0.001	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

SELF-SHIELDING FACTORS CORRESPONDING TO SIGMA = 1.000, 1.000, 1.000

TEMPERATURE 300.

TEMPERATURE 900.

TEMPERATURE 2100.

CAPTURE SELF-SHIELDING FACTORS

NUC

1	1.000	0.999	1.007	1.036
2	1.000	0.995	0.994	0.995
4	1.000	0.992	0.992	0.992
8	1.000	0.991	0.990	0.990
16	1.000	0.999	0.999	0.999
32	1.000	1.000	0.999	0.999
64	1.000	1.000	1.000	1.000
128	1.000	1.000	1.000	1.000
256	1.000	1.000	1.000	1.000
512	1.000	1.000	1.000	1.000
1024	1.000	1.000	1.000	1.000
2048	1.000	1.000	1.000	1.000
4096	1.000	1.000	1.000	1.000
8192	1.000	1.000	1.000	1.000
16384	1.000	1.000	1.000	1.000
32768	1.000	1.000	1.000	1.000
65536	1.000	1.000	1.000	1.000
131072	1.000	1.000	1.000	1.000
262144	1.000	1.000	1.000	1.000
524288	1.000	1.000	1.000	1.000
1048576	1.000	1.000	1.000	1.000
2097152	1.000	1.000	1.000	1.000
4194304	1.000	1.000	1.000	1.000
8388608	1.000	1.000	1.000	1.000
16777216	1.000	1.000	1.000	1.000
33554432	1.000	1.000	1.000	1.000
67108864	1.000	1.000	1.000	1.000
134217728	1.000	1.000	1.000	1.000
268435456	1.000	1.000	1.000	1.000
536870912	1.000	1.000	1.000	1.000
1073741824	1.000	1.000	1.000	1.000
2147483648	1.000	1.000	1.000	1.000
4294967296	1.000	1.000	1.000	1.000
8589934592	1.000	1.000	1.000	1.000
17179869184	1.000	1.000	1.000	1.000
34359738368	1.000	1.000	1.000	1.000
68719476736	1.000	1.000	1.000	1.000
137438953472	1.000	1.000	1.000	1.000
274877856944	1.000	1.000	1.000	1.000
549755713888	1.000	1.000	1.000	1.000
1099511427776	1.000	1.000	1.000	1.000
2199022855552	1.000	1.000	1.000	1.000
4398045711104	1.000	1.000	1.000	1.000
8796091422208	1.000	1.000	1.000	1.000
17592182844016	1.000	1.000	1.000	1.000
35184365688032	1.000	1.000	1.000	1.000
70368731376064	1.000	1.000	1.000	1.000
140737462752128	1.000	1.000	1.000	1.000
281474925504256	1.000	1.000	1.000	1.000
562949851008512	1.000	1.000	1.000	1.000
1125899702016024	1.000	1.000	1.000	1.000
2251799404032048	1.000	1.000	1.000	1.000
4503598808064096	1.000	1.000	1.000	1.000
9007197616128192	1.000	1.000	1.000	1.000
18014395232256384	1.000	1.000	1.000	1.000
36028790464512768	1.000	1.000	1.000	1.000
72057580929025536	1.000	1.000	1.000	1.000
144115161858051072	1.000	1.000	1.000	1.000
288230323716102144	1.000	1.000	1.000	1.000
576460647432204288	1.000	1.000	1.000	1.000
115292129864408576	1.000	1.000	1.000	1.000
230584259728817152	1.000	1.000	1.000	1.000
461168519457634304	1.000	1.000	1.000	1.000
922337038915268608	1.000	1.000	1.000	1.000
1844674178230537216	1.000	1.000	1.000	1.000
3689348356461074432	1.000	1.000	1.000	1.000
7378696712922148864	1.000	1.000	1.000	1.000
1475739342584429772	1.000	1.000	1.000	1.000
2951478685168859544	1.000	1.000	1.000	1.000
5902957370337719088	1.000	1.000	1.000	1.000
11805914740675438176	1.000	1.000	1.000	1.000
23611829481350876352	1.000	1.00		

19	1.000	1.000	1.000	1.000	1.000
20	1.000	1.000	1.000	1.000	1.000
21	1.000	1.000	1.000	1.000	1.000
22	1.000	1.000	1.000	1.000	1.000
23	1.000	1.000	1.000	1.000	1.000
24	0.997	1.000	1.000	1.000	1.000
25	1.000	1.000	1.000	1.000	1.000
26	0.997	1.000	1.000	1.000	1.000
27	0.998	0.998	0.998	0.998	0.998
28					

ELASTIC SELF-SHIELDING FACTORS

NO.6

	0.998	0.999	0.999	0.999	0.999
1	1.000	0.997	0.996	0.996	0.996
2	1.000	0.995	0.994	0.994	0.993
3	1.000	0.992	0.986	0.986	0.982
4	1.000	0.990	0.984	0.984	0.984
5	1.000	0.990	0.989	0.989	0.989
6	1.000	0.990	0.989	0.989	0.989
7	1.000	0.990	0.989	0.989	0.989
8	1.000	0.990	0.989	0.989	0.989
9	1.000	0.990	0.989	0.989	0.989
10	1.000	0.990	0.989	0.989	0.989
11	0.997	0.970	0.912	0.720	0.420
12	1.000	0.994	0.964	0.754	0.424
13	1.000	0.994	0.964	0.754	0.424
14	1.000	0.994	0.964	0.754	0.424
15	1.000	0.994	0.964	0.754	0.424
16	1.000	0.994	0.964	0.754	0.424
17	1.000	0.994	0.964	0.754	0.424
18	1.000	0.994	0.964	0.754	0.424
19	1.000	0.994	0.964	0.754	0.424
20	1.000	0.994	0.964	0.754	0.424
21	1.000	0.994	0.964	0.754	0.424
22	1.000	0.994	0.964	0.754	0.424
23	1.000	0.994	0.964	0.754	0.424
24	1.000	0.994	0.964	0.754	0.424
25	1.000	0.994	0.964	0.754	0.424
26	1.000	0.994	0.964	0.754	0.424
27	1.000	0.994	0.964	0.754	0.424
28					

	0.998	0.999	0.999	0.999	0.999
1	0.998	0.997	0.996	0.996	0.996
2	0.998	0.995	0.994	0.994	0.993
3	0.998	0.992	0.986	0.986	0.982
4	0.998	0.990	0.984	0.984	0.984
5	0.998	0.990	0.989	0.989	0.989
6	0.998	0.990	0.989	0.989	0.989
7	0.998	0.990	0.989	0.989	0.989
8	0.998	0.990	0.989	0.989	0.989
9	0.998	0.990	0.989	0.989	0.989
10	0.998	0.990	0.989	0.989	0.989
11	0.998	0.990	0.989	0.989	0.989
12	0.998	0.990	0.989	0.989	0.989
13	0.998	0.990	0.989	0.989	0.989
14	0.998	0.990	0.989	0.989	0.989
15	0.998	0.990	0.989	0.989	0.989
16	0.998	0.990	0.989	0.989	0.989
17	0.998	0.990	0.989	0.989	0.989
18	0.998	0.990	0.989	0.989	0.989
19	0.998	0.990	0.989	0.989	0.989
20	0.998	0.990	0.989	0.989	0.989
21	0.998	0.990	0.989	0.989	0.989
22	0.998	0.990	0.989	0.989	0.989
23	0.998	0.990	0.989	0.989	0.989
24	0.998	0.990	0.989	0.989	0.989
25	0.998	0.990	0.989	0.989	0.989
26	0.998	0.990	0.989	0.989	0.989
27	0.998	0.990	0.989	0.989	0.989
28					

INELASTIC SCATTERING FROM I TO I+K

I/K	0	1	2	3	4	5	6	7	8	9	10	11
1	0.0	0.006	0.044	0.113	0.140	0.111	0.065	0.032	0.014	0.005	0.002	0.534
2	0.001	0.064	0.369	0.263	0.171	0.097	0.040	0.016	0.006	0.002	0.001	0.163
3	0.0	0.146	0.430	0.152	0.087	0.047	0.024	0.012	0.005	0.003	0.001	0.001
4	0.0	0.001	0.156	0.106	0.053	0.027	0.011	0.003	0.001	0.000	0.000	0.000
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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SELF-SHIELDING FACTORS CORRESPONDING TO SIGMA = 1000, 1500, 2000

TEMPERATURE 300.

TEMPERATURE 400.

TEMPERATURE 2100.

CAPTURE SELF-SHIELDING FACTORS

NUC	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
2	1.000	0.995	0.993	0.991																						
3	1.000	0.992	0.991	0.988																						
4	1.000	0.991	0.990	0.988																						
5	1.000	1.000	0.999	0.998																						
6	1.000	1.000	1.000	1.000																						
7	1.000	1.000	1.000	0.999																						
8	1.000	1.000	1.000	1.000																						
9	1.000	1.000	1.000	1.000																						
10	1.000	1.000	1.000	1.000																						
11	1.000	1.000	1.000	1.000																						
12	1.000	1.000	1.000	1.000																						
13	1.000	1.000	1.000	1.000																						
14	1.000	1.000	1.000	1.000																						
15	1.000	1.000	1.000	1.000																						
16	1.000	1.000	1.000	1.000																						
17	1.000	1.000	1.000	1.000																						
18	1.000	1.000	1.000	1.000																						
19	1.000	1.000	1.000	1.000																						
20	1.000	1.000	1.000	1.000																						
21	1.000	1.000	1.000	1.000																						
22	1.000	1.000	1.000	1.000																						
23	1.000	1.000	1.000	1.000																						
24	1.000	1.000	1.000	1.000																						
25	1.000	1.000	1.000	1.000																						
26	1.000	1.000	1.000	1.000																						
27	1.000	1.000	1.000	1.000																						

TOTAL SELF-SHIELDING FACTORS

NUC	2
-----	---

19	1.000	1.000	1.000	1.000
20	1.000	1.000	0.999	0.999
21	1.000	1.000	1.000	1.000
22	1.000	1.000	1.000	1.000
23	1.000	1.000	1.000	1.000
24	1.000	1.000	1.000	1.000
25	1.000	1.000	1.000	1.000
26	0.999	1.000	1.000	1.000
27	0.990	0.918	0.807	0.761

ELASTIC SELF-SHIELDING FACTORS

WIG

2	1.000	0.995	0.994	0.993
3	1.000	0.992	0.992	0.992
4	1.000	0.991	0.990	0.989
5	1.000	0.999	0.996	0.981
6	1.000	0.999	0.994	0.972
7	1.000	0.998	0.997	0.952
8	1.000	0.995	0.967	0.897
9	0.998	0.981	0.879	0.629
10	0.999	0.987	0.920	0.736
11	0.994	0.949	0.785	0.618
12	0.996	0.966	0.867	0.790
13	0.976	0.856	0.686	0.628
14	0.990	0.923	0.749	0.650
15	0.999	0.994	0.966	0.946
16	0.999	0.996	0.985	0.979
17	1.000	0.999	0.998	0.996
18	1.000	1.000	1.000	1.000
19	1.000	1.000	1.000	1.000
20	1.000	1.000	1.000	0.999
21	1.000	1.000	1.000	1.000
22	1.000	1.000	1.000	1.000
23	1.000	1.000	1.000	1.000
24	1.000	1.000	1.000	1.000
25	1.000	1.000	1.000	1.000
26	1.000	1.000	1.000	1.000
27	1.000	1.000	1.000	1.000

U-235M235.04

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		SIG TOT	SIG FLS	NU	SIG LAT	SIG IN	SIG EL	NU EL	CST	SIG X EL
*	*	2.5844	1.4672	3.5160	0.0101	1.3741	3.7124	0.7914	0.00180	0.0281
*	2	7.7175	1.0792	4.0302	0.0191	1.6194	4.7472	1.7845	0.00200	0.0280
*	3	7.0569	1.2557	2.7370	0.0334	1.7433	4.7042	0.7876	0.00280	0.0280
*	4	6.9154	1.2471	2.6150	0.0374	1.6664	4.7034	0.5045	0.00430	0.0432
*	5	6.7204	1.2236	2.6150	0.0392	1.6465	4.7144	0.4265	0.00490	0.0393
*	6	7.1356	1.1127	2.6050	0.1144	1.2174	4.7202	0.5061	0.00530	0.0497
*	7	9.3435	1.0576	2.6060	0.1754	0.4405	6.0204	0.3118	0.00540	0.0711
*	8	9.67436	1.3153	2.64490	0.2543	0.6393	7.5267	0.2381	0.00650	0.0984
*	9	11.0550	1.6450	2.64190	0.4314	0.4480	8.6762	0.1260	0.00750	0.1302
*	10	11.2662	1.7262	2.64350	0.5356	0.2491	9.4744	0.0586	0.00800	0.1515
*	11	12.7546	1.9160	2.64190	0.6814	0.0504	10.1268	0.0398	0.00820	0.1664
*	12	13.6670	2.1362	2.64260	0.4018	0.3207	10.6504	0.0220	0.00840	0.1788
*	13	14.0555	2.4475	2.64250	0.9011	0.0073	10.6500	0.0111	0.00850	0.1808
*	14	14.9342	2.9960	2.64240	1.0737	0.0003	10.8742	0.0045	0.00850	0.1858
*	15	15.6279	3.6733	2.64240	1.1972	0.0	10.9574	0.0024	0.00860	0.1876
*	16	17.3155	4.5730	2.64230	1.5574	0.0	11.1550	0.0024	0.00860	0.1904
*	17	18.6603	5005.5156	2.64230	1.9504	0.0	11.2126	0.0024	0.00860	0.1919
*	18	21.9710	3007.4861	2.64230	2.9465	0.0	11.4903	0.0029	0.00860	0.1967
*	19	24.6532	8.7771	2.64230	4.2441	0.0	11.6321	0.0029	0.00860	0.1991
*	20	30.1884	13.5415	2.64230	4.4812	0.0	11.6657	0.0029	0.00860	0.1997
*	21	31.3603	14.0526	2.64230	5.5868	0.0	11.4234	0.0029	0.00860	0.1955
*	22	44.2463	21.5598	2.64230	10.4620	0.0	11.8245	0.0029	0.00860	0.1012
*	23	62.7262	34.5172	2.64230	15.9577	0.0	12.2714	0.0029	0.00860	0.1050
*	24	93.8671	51.3414	2.64230	30.1696	0.0	12.3762	0.0029	0.00860	0.1059
*	25	103.5141	49.8046	2.64230	42.3365	0.0	11.3730	0.0029	0.00860	0.0973
*	26	54.9453	31.8318	2.64230	70.4266	0.0	12.1869	0.0029	0.00860	0.0521
*	27	2565.8621	2169.1392	2.64230	381.1447	0.0	15.5940	0.0029	0.00860	0.0151

19 0.997 0.976 0.857 0.651
 20 0.993 0.945 0.743 0.469
 21 0.988 0.914 0.684 0.444
 22 0.967 0.809 0.484 0.290
 23 0.936 0.723 0.507 0.427
 24 0.840 0.550 0.373 0.324
 25 0.702 0.434 0.279 0.245
 26 0.961 0.803 0.633 0.583
 27 0.445 0.254 0.208 0.202

1.000 1.000 0.953 0.701
 0.994 0.992 0.840 0.479
 0.996 0.969 0.784 0.467
 0.984 0.892 0.550 0.234
 0.957 0.791 0.581 0.492
 0.879 0.616 0.432 0.384
 0.832 0.492 0.308 0.269
 0.968 0.832 0.662 0.609
 0.445 0.254 0.208 0.202

1.000 1.000 1.000 0.717
 1.000 1.000 0.906 0.459
 1.000 1.000 0.857 0.458
 0.994 0.952 0.590 0.193
 0.970 0.840 0.643 0.546
 0.908 0.678 0.503 0.455
 0.875 0.558 0.355 0.309
 0.970 0.859 0.699 0.644
 0.445 0.254 0.208 0.202

TOTAL SELF-SHIELDING FACTORS

NFG

1 1.001 0.999 0.997 0.993
 2 1.000 1.000 0.999 0.998
 3 0.999 1.000 0.999 0.998
 4 0.999 1.000 1.000 1.000
 5 1.000 1.000 1.000 1.000
 6 1.001 1.000 0.999 0.998
 7 1.000 1.000 0.998 0.996
 8 1.000 1.000 0.998 0.996
 9 1.000 1.000 0.999 0.998
 10 1.000 1.000 1.000 0.994
 11 1.000 1.000 1.000 0.999
 12 1.000 1.000 0.999 0.996
 13 1.000 0.995 0.937 0.704
 14 1.000 0.995 0.924 0.744
 15 0.999 0.994 0.518 0.734
 16 0.999 0.990 0.864 0.630
 17 0.999 0.984 0.822 0.566
 18 0.996 0.965 0.642 0.422
 19 0.993 0.938 0.549 0.362
 20 0.988 0.892 0.419 0.236
 21 0.983 0.465 0.427 0.250
 22 0.952 0.712 0.231 0.149
 23 0.913 0.667 0.444 0.385
 24 0.778 0.487 0.325 0.286
 25 0.691 0.396 0.206 0.259
 26 0.981 0.815 0.645 0.469
 27 0.238 0.105 0.078 0.075

1.001 0.999 0.997 0.993
 1.000 1.000 0.999 0.998
 0.999 1.000 0.999 0.998
 0.999 1.000 1.000 1.000
 1.000 1.000 1.000 1.000
 1.001 1.000 0.999 0.998
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 1.000 1.000 1.000 0.999
 1.000 1.000 0.999 0.996
 1.000 0.996 0.940 0.786
 1.000 0.997 0.924 0.742
 1.000 0.997 0.925 0.729
 1.000 0.996 0.878 0.605
 0.999 0.943 0.832 0.529
 0.999 0.942 0.684 0.365
 0.997 0.964 0.573 0.299
 0.994 0.927 0.362 0.191
 0.993 0.905 0.176 0.205
 0.970 0.762 0.173 0.124
 0.917 0.714 0.474 0.414
 0.821 0.534 0.355 0.310
 0.761 0.417 0.292 0.263
 0.465 0.427 0.493 0.653
 0.338 0.105 0.078 0.075

1.001 0.999 0.997 0.993
 1.000 1.000 0.999 0.998
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 1.000 1.000 0.999 0.996
 1.000 0.997 0.942 0.785
 1.000 0.997 0.941 0.739
 1.000 0.998 0.929 0.723
 1.000 0.998 0.928 0.723
 1.000 0.998 0.879 0.605
 1.000 0.999 0.883 0.588
 1.000 0.947 0.836 0.501
 1.000 0.999 0.673 0.329
 0.999 0.991 0.673 0.329
 0.999 0.980 0.545 0.254
 0.997 0.951 0.307 0.159
 0.945 0.933 0.322 0.170
 0.981 0.803 0.118 0.105
 0.952 0.763 0.508 0.456
 0.857 0.590 0.405 0.354
 0.791 0.452 0.308 0.275
 0.964 0.843 0.707 0.604
 0.238 0.105 0.078 0.075

ELASTIC SELF-SHIELDING FACTORS

NFG

1 1.000 0.997 0.955 0.941
 2 1.000 0.995 0.944 0.934
 3 1.000 0.992 0.931 0.920
 4 1.000 0.931 0.893 0.811
 5 1.000 1.012 0.880 1.030
 6 1.000 1.012 0.856 1.014
 7 1.000 1.000 0.844 0.847
 8 1.000 1.000 0.844 0.844
 9 1.000 1.000 0.833 0.833
 10 1.000 1.000 1.000 1.000
 11 1.000 1.000 1.000 1.000
 12 0.945 0.955 0.947 0.937

1.000 0.997 0.945 0.941
 1.000 0.995 0.924 0.933
 1.000 0.992 0.941 0.930
 1.000 0.941 0.890 0.890
 1.000 1.010 1.000 1.010
 1.000 1.000 1.000 1.000
 1.000 1.000 0.999 0.998
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1.000 0.997 0.945 0.941
 1.000 0.995 0.924 0.949
 1.000 0.992 0.941 0.940
 1.000 0.947 0.941 0.940
 1.000 0.991 0.949 0.940
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13 1.000 1.000 1.000 0.975
 14 1.000 1.000 1.000 0.958
 15 1.000 1.000 1.000 0.994
 16 1.000 1.000 0.999 0.993
 17 1.000 1.000 0.997 0.949
 18 1.000 0.998 0.944 0.474
 19 0.999 0.995 0.980 0.962
 20 0.999 0.991 0.965 0.947
 21 0.999 0.991 0.973 0.959
 22 0.995 0.975 0.942 0.924
 23 0.994 0.977 0.963 0.959
 24 0.970 0.924 0.900 0.853
 25 0.974 0.940 0.474 0.430
 26 0.998 0.995 0.988 0.935
 27 0.985 0.967 0.959 0.957

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	SIG INT	SIG INV	SIG INV	SIG INV	SIG LAT	SIG IN	SIG IN	SIG HI	SIG HI	SIG HI
1	0.5912	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2	1.2614	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
3	7.4113	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
4	0.9302	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	7.1616	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	8.0561	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
7	9.2195	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
8	10.4659	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
9	11.4925	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
10	12.4076	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
11	12.4766	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
12	13.5164	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
13	14.1563	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
14	14.8013	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
15	16.0398	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
16	16.3414	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
17	19.6016	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
18	21.9368	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
19	23.1469	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
20	20.5064	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
21	19.3517	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
22	74.0623	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
23	36.6973	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
24	191.0779	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
25	145.9097	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
26	9.1614	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
27	18.5963	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

INELASTIC SCATTERING, Eqs. 1 to 1+

	G	G	G	G	G	G	G	G	G	G
1	0.000	0.014	0.123	0.342	0.622	0.915	0.947	0.968	0.977	0.984
2	0.006	0.107	0.348	0.601	0.771	0.924	0.963	0.973	0.981	0.985
3	0.065	0.297	0.566	0.801	0.922	0.931	0.954	0.964	0.971	0.982
4	0.269	0.550	0.684	0.752	0.851	0.931	0.950	0.961	0.970	0.980
5	0.995	0.467	0.321	0.361	0.350	0.374	0.379	0.382	0.385	0.389
6	1.314	0.456	0.036	0.014	0.021	0.014	0.006	0.002	0.000	0.000
7	0.583	0.472	0.032	0.002	0.031	0.033	0.033	0.033	0.033	0.033
8	0.595	0.460	0.028	0.012	0.002	0.001	0.001	0.001	0.001	0.001
9	0.281	0.464	0.016	0.003	0.002	0.001	0.001	0.001	0.001	0.001
10	0.3	0.253	0.117	0.014	0.03	0.02	0.01	0.01	0.01	0.01
11	0.0	0.016	0.021	0.004	0.001	0.001	0.001	0.001	0.001	0.001
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

THE PRACTICAL *Light* **and** *Heat* **of** *Electricity*. By J. B. DODGE, M. E.

卷之三

	0.768	0.523	0.401	0.232
1	0.805	0.556	0.461	0.177
2	0.772	0.595	0.527	0.165
3	0.306	0.173	0.128	0.053
4	0.424	0.304	0.233	0.154
5	0.104	0.051	0.037	0.031
6	0.161	0.083	0.063	0.054
7	0.998	1.000	1.000	0.997

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12

	MEG	SIG T/F	SIG F/F	NU	SIG CAT	SIG IN	SIG EL	MU LL	LST	SIG X LL
1	6.6968	2.3583	3.9650	0.0016	1.3431	3.2538	0.9012	0.00080	0.0116	
2	7.8097	1.7063	3.5370	0.0018	1.1874	3.9121	0.8823	0.00100	0.0113	
3	7.7996	1.9453	3.2690	0.0039	2.2213	3.6271	0.8366	0.00140	0.0110	
4	7.1799	2.0082	3.1120	0.0123	1.9146	3.2468	0.7474	0.00210	0.0134	
5	7.2374	1.7517	3.0170	0.0246	1.6706	3.7509	0.6106	0.00110	0.0244	
6	5.0773	1.5909	2.9630	0.0759	1.2712	5.1493	0.4727	0.00440	0.0452	
7	9.1665	1.5311	2.7310	0.1406	0.8250	6.5703	0.3748	0.00530	0.0764	
8	10.1864	1.4762	2.9110	0.1960	0.6307	7.8839	0.2785	0.00610	0.0960	
9	11.2064	1.5465	2.8940	0.2277	0.5193	8.9135	0.1974	0.00680	0.1207	
10	12.1534	1.6304	2.8910	0.2692	0.4125	9.8413	0.1368	0.00730	0.1430	
11	12.9380	1.6791	2.8870	0.4631	0.3368	10.5589	0.0862	0.00770	0.1628	
12	13.5450	1.7244	2.8840	0.5575	0.3197	10.9434	0.0539	0.00800	0.1747	
13	13.7189	1.8448	2.8430	0.7734	0.3049	10.7958	0.0343	0.00810	0.1760	
14	14.5743	1.9756	2.8820	1.0681	0.2776	11.2530	0.0218	0.00830	0.1858	
15	16.0325	2.2372	2.8810	1.5956	0.2827	12.1711	0.0040	0.00840	0.2046	
16	17.5406	2.6341	2.8810	2.2414	0.0	12.6647	0.0028	0.00840	0.2132	
17	19.3778	3.2156	2.8800	3.1190	0.0	13.0432	0.0028	0.00840	0.2195	
18	21.0710	4.7472	2.8800	3.5525	0.0	12.7714	0.0028	0.00840	0.2149	
19	23.9695	6.3173	2.8800	4.6763	0.0	12.4759	0.0028	0.00840	0.2184	
20	32.6466	10.3666	2.8800	7.3707	0.0	14.9094	0.0028	0.00840	0.2509	
21	35.7292	10.6876	2.8800	9.6959	0.0	15.3457	0.0028	0.00840	0.2583	
22	53.7108	18.2277	2.8900	17.7052	0.0	18.4307	0.0028	0.00840	0.1551	
23	113.1682	46.3284	2.9800	43.4226	0.0	23.0172	0.0028	0.00840	0.1437	
24	103.2008	49.5467	2.9800	40.6636	0.0	12.4884	0.0028	0.00840	0.1093	
25	129.9206	71.1978	2.8300	48.1714	0.0	10.5614	0.0028	0.00840	0.0889	
26	41.3674	23.5742	2.8300	7.1481	0.0	10.6056	0.0028	0.00840	0.0446	
27	3697.3542	2747.4270	2.8300	941.2841	0.0	4.1628	0.0024	0.00440	0.0047	

INELASTIC SCATTERING FROM E TO 10K

	0	1	2	3	4	5	6	7	8	9	10	11
1	0.523	0.043	0.053	0.166	0.226	0.189	0.116	0.058	0.026	0.011	0.004	0.002
2	0.653	0.097	0.229	0.383	0.363	0.239	0.126	0.058	0.024	0.010	0.004	0.002
3	0.717	0.209	0.338	0.384	0.283	0.160	0.076	0.031	0.013	0.005	0.002	0.001
4	0.838	0.413	0.248	0.198	0.117	0.058	0.025	0.010	0.004	0.002	0.001	0.000
5	0.836	0.466	0.243	0.064	0.038	0.015	0.005	0.002	0.001	0.000	0.000	0.000
6	0.686	0.286	0.192	0.072	0.024	0.007	0.002	0.000	0.0	0.0	0.0	0.0
7	0.591	0.150	0.030	0.023	0.013	0.006	0.003	0.001	0.000	0.000	0.0	0.0
8	0.461	0.167	0.001	0.000	0.0	0.0	0.000	0.000	0.0	0.0	0.0	0.0
9	0.339	0.144	0.030	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.266	0.104	0.025	0.012	0.004	0.000	0.000	0.0	0.0	0.0	0.0	0.0
11	0.210	0.122	0.0	0.001	0.002	0.001	0.000	0.000	0.0	0.0	0.0	0.0
12	0.138	0.182	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.041	0.182	0.081	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.055	0.101	0.064	0.042	0.007	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.013	0.009	0.004	0.002	0.000	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SELF-SUPERVISING FACTORY'S EXPANSION: INTEGRATION OF EXPERTISE AND KNOWLEDGE

TEMPERATURE	300°	TEMPERATURE	700°	TEMPERATURE	2100°			
				ELASTIC-STEEL-SHIELDING FACTORS				
N.G.								
1	1.000	0.998	0.994	1.002	1.000	0.998	0.999	1.002
2	1.000	0.995	0.994	1.001	1.000	0.995	0.994	1.001
3	1.000	0.993	0.992	1.000	1.000	0.993	0.992	1.000
4	1.000	0.991	0.990	1.000	1.000	0.991	0.990	1.000
5	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.001
6	1.000	1.000	1.000	1.001	1.000	1.000	1.000	1.001
7	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
8	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
9	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
10	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
11	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
12	0.995	0.995	0.995	0.994	0.995	0.995	0.995	0.994
13	1.000	0.999	0.980	0.913	1.000	1.000	0.994	0.931
14	0.995	0.996	0.962	0.964	1.000	1.000	0.984	0.911
15	0.999	0.989	0.930	0.131	1.000	0.997	0.961	0.964
16	0.997	0.977	0.857	0.774	0.999	0.990	0.910	0.915
17	0.995	0.954	0.635	0.713	0.997	0.973	0.833	0.755
18	0.990	0.929	0.765	0.642	0.995	0.956	0.933	0.896
19	0.942	0.883	0.679	0.554	0.990	0.925	0.750	0.607
20	0.963	0.828	0.603	0.475	0.940	0.874	0.651	0.493
21	0.954	0.790	0.588	0.455	0.967	0.838	0.637	0.527
22	0.917	0.714	0.532	0.471	0.942	0.763	0.577	0.513
23	0.822	0.552	0.361	0.300	0.853	0.577	0.474	0.309
24	0.716	0.377	0.206	0.163	0.757	0.494	0.275	0.169
25	0.655	0.311	0.193	0.167	0.689	0.325	0.174	0.170
26	0.595	0.268	0.917	0.895	0.995	0.468	0.217	0.876
27	0.539	0.372	0.338	0.333	0.509	0.372	0.198	0.333

CAPTURE SECP-SHIELDING FACTORS

NUG	1	1.000	0.999	1.004	1.016	1	1.000	0.999	1.004	1.016	1	1.000	0.999	1.004	1.016
2	1.000	0.995	0.993	0.991	1.000	1.000	0.995	0.993	0.991	1.000	1.000	0.995	0.993	0.991	1.000
3	1.000	0.993	0.996	1.001	1.000	1.000	0.993	0.996	1.001	1.000	1.000	0.993	0.996	1.001	1.000
4	1.000	0.991	0.991	0.993	1.000	1.000	0.991	0.991	0.991	1.000	1.000	0.991	0.991	0.993	1.000
5	1.000	1.000	0.997	0.993	1.000	1.000	0.997	0.993	1.000	1.000	1.000	0.997	0.993	1.000	1.000
6	1.000	0.999	0.996	0.991	1.000	1.000	0.999	0.996	0.991	1.000	1.000	0.995	0.996	0.991	1.000
7	1.000	1.000	0.994	0.995	1.000	1.000	1.000	0.994	0.995	1.000	1.000	0.998	0.998	0.995	1.000
9	1.000	1.000	0.994	0.999	1.000	1.000	0.999	0.994	0.999	1.000	1.000	0.999	0.999	0.999	1.000
9	1.000	1.000	0.995	0.994	1.000	1.000	0.999	0.999	0.999	1.000	1.000	0.995	0.999	0.999	1.000
10	1.000	1.000	0.995	0.995	1.000	1.000	0.995	0.995	0.995	1.000	1.000	0.995	0.995	0.995	1.000
11	1.000	1.000	0.994	0.995	1.000	1.000	0.995	0.994	0.995	1.000	1.000	0.995	0.994	0.994	1.000
12	0.994	0.994	0.994	0.994	0.992	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994	0.994
13	1.000	1.000	1.001	1.001	0.993	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
14	1.000	0.995	0.997	1.000	1.000	1.000	0.995	0.997	1.000	1.000	1.000	0.995	1.000	1.000	1.000
15	0.998	0.997	0.993	0.997	1.000	1.000	0.997	0.993	1.000	1.000	1.000	0.998	1.000	1.000	1.000
16	0.995	0.997	0.997	0.997	1.000	1.000	0.995	0.997	0.997	1.000	1.000	0.995	1.000	1.000	1.000
17	1.000	0.993	0.993	0.993	1.000	1.000	0.997	0.997	0.993	1.000	1.000	0.993	0.993	0.993	1.000
18	1.000	0.997	0.997	0.997	1.000	1.000	0.997	0.997	0.997	1.000	1.000	0.997	0.997	0.997	1.000

14	0.972	0.822	0.555	0.421	0.986	0.901	0.697	0.556	0.994	0.951	0.822	0.689
20	0.944	0.721	0.428	0.302	0.969	0.818	0.550	0.396	0.983	0.890	0.670	0.495
21	0.908	0.627	0.358	0.266	0.941	0.729	0.466	0.354	0.954	0.809	0.576	0.451
22	0.841	0.519	0.304	0.250	0.894	0.614	0.384	0.319	0.928	0.695	0.449	0.395
23	0.645	0.284	0.152	0.123	0.724	0.339	0.176	0.139	0.790	0.408	0.213	0.167
24	0.642	0.277	0.133	0.101	0.695	0.306	0.146	0.110	0.743	0.275	0.165	0.125
25	0.637	0.283	0.158	0.133	0.681	0.301	0.162	0.136	0.729	0.328	0.170	0.143
26	0.992	0.952	0.876	0.845	0.992	0.952	0.876	0.845	0.993	0.953	0.876	0.845
27	0.550	0.415	0.379	0.373	0.550	0.415	0.379	0.373	0.550	0.415	0.379	0.373

TOTAL SELF-SHIELDING FACTORS

NUG	1	1.001	0.999	0.998	0.994		1.001	0.999	0.998	0.994		1.001	0.999	0.998	0.994
2	1.000	1.000	0.999	0.998		1.000	1.000	0.999	0.998		1.000	1.000	0.999	0.998	
3	0.999	1.000	1.000	0.999		0.999	1.000	1.000	0.999		0.999	1.000	1.000	0.999	
4	0.999	1.000	1.000	1.000		0.999	1.000	1.000	1.000		0.999	1.000	1.000	1.000	
5	1.001	1.000	1.000	0.999		1.001	1.000	1.000	0.999		1.001	1.000	1.000	0.999	
6	1.000	1.000	0.999	0.997		1.000	1.000	0.999	0.997		1.000	1.000	0.999	0.997	
7	1.000	1.000	0.999	0.998		1.000	1.000	0.999	0.998		1.000	1.000	0.999	0.998	
8	1.000	1.000	0.999	0.998		1.000	1.000	0.999	0.998		1.000	1.000	0.999	0.998	
9	1.000	1.000	0.999	0.999		1.000	1.000	0.999	0.999		1.000	1.000	0.999	0.999	
10	1.000	1.000	1.000	0.999		1.000	1.000	1.000	0.999		1.000	1.000	1.000	0.999	
11	1.000	1.000	1.000	1.000		1.000	1.000	1.000	1.000		1.000	1.000	1.000	1.000	
12	1.000	1.000	0.999	0.996		1.000	1.000	0.999	0.996		1.000	1.000	0.999	0.996	
13	0.999	0.991	0.927	0.805		0.999	0.994	0.939	0.805		1.000	0.996	0.946	0.800	
14	0.998	0.986	0.905	0.778		0.999	0.992	0.925	0.781		1.000	0.996	0.937	0.781	
15	0.997	0.972	0.854	0.714		0.998	0.985	0.846	0.715		0.999	0.993	0.968	0.713	
16	0.994	0.951	0.796	0.657		0.997	0.973	0.836	0.657		0.994	0.956	0.887	0.657	
17	0.989	0.917	0.726	0.595		0.994	0.950	0.769	0.590		0.997	0.971	0.806	0.580	
18	0.982	0.880	0.671	0.553		0.990	0.922	0.710	0.547		0.994	0.951	0.747	0.534	
19	0.967	0.816	0.592	0.484		0.981	0.869	0.620	0.478		0.988	0.910	0.650	0.463	
20	0.928	0.701	0.459	0.368		0.954	0.760	0.466	0.352		0.970	0.812	0.474	0.333	
21	0.889	0.640	0.450	0.382		0.924	0.694	0.469	0.382		0.946	0.756	0.492	0.382	
22	0.798	0.521	0.379	0.343		0.853	0.578	0.404	0.362		0.893	0.638	0.446	0.392	
23	0.599	0.315	0.198	0.162		0.661	0.333	0.200	0.162		0.723	0.364	0.207	0.162	
24	0.554	0.266	0.172	0.151		0.600	0.274	0.174	0.152		0.647	0.268	0.178	0.155	
25	0.493	0.226	0.166	0.159		0.524	0.224	0.168	0.158		0.576	0.233	0.167	0.158	
26	0.993	0.949	0.872	0.845		0.993	0.944	0.872	0.845		0.991	0.944	0.872	0.845	
27	0.317	0.165	0.123	0.117		0.317	0.165	0.123	0.117		0.317	0.165	0.123	0.117	

ELASTIC STIFF-SPLINTERING FACTORS

Nº 16	1	1.000	0.997	0.995	0.993	1	1.000	0.997	0.995	0.993	1	1.000	0.997	0.995	0.993	
2	1.000	0.999	0.994	0.993		2	1.000	0.999	0.994	0.993		2	1.000	0.999	0.994	0.993
3	1.000	0.992	0.991	0.991		3	1.000	0.992	0.991	0.991		3	1.000	0.992	0.991	0.991
4	1.000	0.991	0.990	0.990		4	1.000	0.991	0.990	0.990		4	1.000	0.991	0.990	0.990
5	1.000	1.000	0.994	0.994		5	1.000	1.000	0.994	0.994		5	1.000	1.000	0.994	0.994
6	1.000	1.000	0.998	0.997		6	1.000	1.000	0.998	0.997		6	1.000	1.000	0.998	0.997
7	1.000	1.000	0.994	0.995		7	1.000	1.000	0.994	0.995		7	1.000	1.000	0.994	0.995
8	1.000	1.000	0.999	0.995		8	1.000	1.000	0.999	0.995		8	1.000	1.000	0.999	0.995
9	1.000	1.000	1.000	0.999		9	1.000	1.000	1.000	0.999		9	1.000	1.000	1.000	0.999
10	1.000	1.000	1.000	0.995		10	1.000	1.000	1.000	0.995		10	1.000	1.000	1.000	0.995
11	1.000	1.000	1.000	1.000		11	1.000	1.000	1.000	1.000		11	1.000	1.000	1.000	1.000
12	1.000	0.998	0.998	0.995		12	1.000	0.998	0.998	0.995		12	1.000	0.998	0.995	0.995

