

Table 5.3.3a. The selected 94 fine-structure levels from the 219 levels included in the calculation (96Z1) and their observed energies in rydbergs (85S1) for Fe III. The index i is used in Table 5.3.3b for transition keys; J is the total angular momentum for specifying the fine-structure level.

i	LS Term		J	Energy	i	LS Term		J	Energy
1	3d ⁶	a ⁵ D	4	0.0000E+00	48	3d ⁵ (⁴ D)4s	b ³ D	3	7.0128E-01
2			3	3.9749E-03	49			2	7.0261E-01
3			2	6.7334E-03	50			1	7.0236E-01
4			1	8.4967E-03	51	3d ⁵ (² I)4s	a ³ I	7	7.2756E-01
5			0	9.3614E-03	52			6	7.2760E-01
6	3d ⁶	a ³ P	2	1.7683E-01	53			5	7.2774E-01
7			1	1.8853E-01	54	3d ⁵ (⁶ S)4p	z ⁷ P ^o	4	7.5495E-01
8			0	1.9327E-01	55			3	7.5028E-01
9	3d ⁶	a ³ H	6	1.8272E-01	56			2	7.4725E-01
10			5	1.8499E-01	57	3d ⁵ (² D3)4s	c ³ D	3	7.5073E-01
11			4	1.8664E-01	58			2	7.5098E-01
12	3d ⁶	a ³ F	4	1.9558E-01	59			1	7.5175E-01
13			3	1.9774E-01	60	3d ⁵ (⁴ F3)4s	a ⁵ F	5	7.5761E-01
14			2	1.9918E-01	61			4	7.5782E-01
15	3d ⁶	a ³ G	5	2.2380E-01	62			3	7.5852E-01
16			4	2.2728E-01	63			2	7.5962E-01
17			3	2.2911E-01	64			1	7.6225E-01
18	3d ⁵ (⁶ S)4s	a ⁷ S	3	2.7419E-01	65	3d ⁵ (² F2)4s	c ³ F	4	7.6692E-01
19	3d ⁶	a ³ D	3	2.8120E-01	66			3	7.7159E-01
20			2	2.7991E-01	67			2	7.6884E-01
21			1	2.7999E-01	68	3d ⁵ (² H)4s	b ³ H	6	8.1033E-01
22	3d ⁵ (⁶ S)4s	a ⁵ S	2	3.7362E-01	69			5	8.0825E-01
23	3d ⁶	b ³ P	2	4.5939E-01	70			4	8.0796E-01
24			1	4.5178E-01	71	3d ⁵ (⁶ S)4p	z ⁵ P ^o	3	8.1180E-01
25			0	4.4787E-01	72			2	8.1408E-01
26	3d ⁶	b ³ F	4	4.5815E-01	73			1	8.1551E-01
27			3	4.5832E-01	74	3d ⁵ (⁴ G)4p	z ⁵ G ^o	6	1.0365E+00
28	3d ⁵ (⁴ G)4s	a ⁵ G	6	5.7797E-01	75			5	1.0359E+00
29			2	4.5732E-01	76			4	1.0355E+00
30			5	5.7835E-01	77			3	1.0352E+00
31			4	5.7853E-01	78			2	1.0351E+00
32			3	5.7860E-01	79	3d ⁵ (⁴ G)4p	z ⁵ H ^o	7	1.0538E+00
33			2	5.7861E-01	80			6	1.0523E+00
34	3d ⁵ (⁴ P)4s	a ⁵ P	3	6.0567E-01	81			5	1.0506E+00
35			2	6.0620E-01	82			4	1.0490E+00
36			1	6.0683E-01	83			3	1.0475E+00
37	3d ⁵ (⁴ D)4s	b ⁵ D	4	6.3511E-01	84	3d ⁵ (⁴ G)4p	z ⁵ F ^o	5	1.0600E+00
38			3	6.3640E-01	85			4	1.0613E+00
39			2	6.3641E-01	86			3	1.0614E+00
40			1	6.3596E-01	87			2	1.0660E+00
41			0	6.3559E-01	88			1	1.0656E+00
42	3d ⁵ (⁴ G)4s	b ³ G	5	6.4421E-01	89	3d ⁵ (⁴ P)4p	z ⁵ S ^o	2	1.0653E+00
43			4	6.4453E-01	90	3d ⁵ (⁴ P)4p	z ⁵ D ^o	4	1.0709E+00
44			3	6.4449E-01	91			3	1.0668E+00
45	3d ⁵ (⁴ P)4s	c ³ P	2	6.7186E-01	92			2	1.0609E+00
46			1	6.7296E-01	93			1	1.0605E+00
47			0	6.7375E-01	94			0	1.0604E+00

Table 5.3.3b. The effective collision strengths $\Upsilon(i, j)$ as a function of temperature $T(\text{K})$ for the transitions between the first 17 metastable levels and the transitions between the five levels of the ground term $3d^6 \ ^5D$ and the 77 higher levels, $i = 18 - 94$ as specified in Table 5.3.3a for Fe III (96Z1).

Levels		$T(\text{K})$							
i	j	1000	3000	5000	10000	15000	20000	30000	40000
1	2	2.85	2.29	2.48	2.92	3.05	3.04	2.92	2.79
1	3	8.41[-1]	8.41[-1]	1.00	1.24	1.32	1.33	1.29	1.24
2	3	1.57	1.50	1.70	2.06	2.18	2.19	2.14	2.06
1	4	4.18[-1]	4.14[-1]	4.84[-1]	5.95[-1]	6.31[-1]	6.39[-1]	6.29[-1]	6.13[-1]
2	4	3.98[-1]	4.89[-1]	6.21[-1]	7.99[-1]	8.48[-1]	8.49[-1]	8.17[-1]	7.83[-1]
3	4	9.43[-1]	9.29[-1]	1.06	1.29	1.36	1.37	1.33	1.29
1	5	1.33[-1]	1.29[-1]	1.48[-1]	1.80[-1]	1.92[-1]	1.96[-1]	1.95[-1]	1.92[-1]
2	5	1.01[-1]	1.33[-1]	1.74[-1]	2.25[-1]	2.38[-1]	2.37[-1]	2.27[-1]	2.18[-1]
3	5	1.31[-1]	1.85[-1]	2.39[-1]	3.12[-1]	3.33[-1]	3.34[-1]	3.22[-1]	3.08[-1]
4	5	4.10[-1]	3.79[-1]	4.16[-1]	4.93[-1]	5.20[-1]	5.24[-1]	5.13[-1]	4.98[-1]
1	6	6.28[-1]	6.47[-1]	6.24[-1]	5.80[-1]	5.55[-1]	5.40[-1]	5.32[-1]	5.41[-1]
2	6	3.70[-1]	3.82[-1]	3.64[-1]	3.35[-1]	3.20[-1]	3.11[-1]	3.05[-1]	3.07[-1]
3	6	1.91[-1]	2.00[-1]	1.90[-1]	1.73[-1]	1.64[-1]	1.59[-1]	1.54[-1]	1.53[-1]
4	6	8.27[-2]	8.85[-2]	8.45[-2]	7.67[-2]	7.29[-2]	7.05[-2]	6.78[-2]	6.68[-2]
5	6	2.19[-2]	2.41[-2]	2.31[-2]	2.11[-2]	2.01[-2]	1.94[-2]	1.86[-2]	1.82[-2]
1	7	1.93[-1]	1.99[-1]	1.86[-1]	1.65[-1]	1.55[-1]	1.49[-1]	1.43[-1]	1.41[-1]
2	7	1.95[-1]	2.09[-1]	2.05[-1]	1.95[-1]	1.88[-1]	1.83[-1]	1.80[-1]	1.83[-1]
3	7	1.91[-1]	1.98[-1]	1.92[-1]	1.79[-1]	1.72[-1]	1.67[-1]	1.65[-1]	1.69[-1]
4	7	1.43[-1]	1.45[-1]	1.38[-1]	1.26[-1]	1.20[-1]	1.17[-1]	1.15[-1]	1.18[-1]
5	7	5.34[-2]	5.33[-2]	5.01[-2]	4.53[-2]	4.31[-2]	4.18[-2]	4.13[-2]	4.21[-2]
6	7	1.93	1.43	1.26	1.10	1.02	9.51[-1]	8.46[-1]	7.67[-1]
1	8	1.69[-2]	2.22[-2]	2.24[-2]	2.13[-2]	2.06[-2]	1.99[-2]	1.86[-2]	1.75[-2]
2	8	8.70[-2]	8.60[-2]	7.90[-2]	6.98[-2]	6.60[-2]	6.40[-2]	6.25[-2]	6.27[-2]
3	8	8.36[-2]	8.48[-2]	8.07[-2]	7.41[-2]	7.08[-2]	6.89[-2]	6.86[-2]	7.06[-2]
4	8	5.33[-2]	5.61[-2]	5.53[-2]	5.28[-2]	5.09[-2]	4.97[-2]	5.00[-2]	5.22[-2]
5	8	1.77[-2]	1.91[-2]	1.93[-2]	1.89[-2]	1.82[-2]	1.77[-2]	1.70[-2]	1.66[-2]
6	8	4.45[-1]	3.45[-1]	3.15[-1]	2.82[-1]	2.60[-1]	2.42[-1]	2.12[-1]	1.89[-1]
7	8	7.50[-1]	5.24[-1]	4.46[-1]	3.77[-1]	3.50[-1]	3.31[-1]	3.02[-1]	2.80[-1]
1	9	1.38	1.45	1.40	1.34	1.32	1.32	1.37	1.46
2	9	5.95[-1]	5.99[-1]	5.77[-1]	5.55[-1]	5.54[-1]	5.58[-1]	5.86[-1]	6.24[-1]
3	9	1.92[-1]	1.92[-1]	1.85[-1]	1.78[-1]	1.79[-1]	1.81[-1]	1.92[-1]	2.05[-1]
4	9	3.64[-2]	3.70[-2]	3.58[-2]	3.48[-2]	3.53[-2]	3.62[-2]	3.86[-2]	4.15[-2]
5	9	9.22[-4]	1.08[-3]	1.08[-3]	1.22[-3]	1.44[-3]	1.62[-3]	1.85[-3]	2.00[-3]
6	9	5.98[-1]	5.10[-1]	4.54[-1]	4.03[-1]	3.92[-1]	3.92[-1]	4.09[-1]	4.38[-1]
7	9	1.38[-1]	1.15[-1]	1.01[-1]	8.76[-2]	8.36[-2]	8.18[-2]	8.10[-2]	8.19[-2]
8	9	4.62[-3]	6.53[-3]	7.30[-3]	8.07[-3]	8.38[-3]	8.43[-3]	8.26[-3]	8.02[-3]
1	10	5.21[-1]	5.29[-1]	5.10[-1]	4.89[-1]	4.86[-1]	4.90[-1]	5.14[-1]	5.49[-1]
2	10	6.83[-1]	6.67[-1]	6.36[-1]	6.09[-1]	6.02[-1]	6.02[-1]	6.23[-1]	6.58[-1]
3	10	4.81[-1]	4.72[-1]	4.51[-1]	4.30[-1]	4.25[-1]	4.25[-1]	4.41[-1]	4.66[-1]
4	10	2.43[-1]	2.41[-1]	2.31[-1]	2.23[-1]	2.23[-1]	2.25[-1]	2.36[-1]	2.52[-1]
5	10	6.90[-2]	6.93[-2]	6.70[-2]	6.53[-2]	6.62[-2]	6.77[-2]	7.22[-2]	7.75[-2]
6	10	3.20[-1]	2.71[-1]	2.40[-1]	2.13[-1]	2.07[-1]	2.05[-1]	2.06[-1]	2.11[-1]
7	10	2.22[-1]	1.96[-1]	1.79[-1]	1.67[-1]	1.68[-1]	1.68[-1]	1.71[-1]	1.74[-1]
8	10	8.78[-2]	7.00[-2]	6.00[-2]	5.26[-2]	5.15[-2]	5.11[-2]	5.08[-2]	5.08[-2]
9	10	3.01	3.00	2.97	2.84	2.71	2.59	2.39	2.24
1	11	9.69[-2]	9.81[-2]	9.48[-2]	9.26[-2]	9.41[-2]	9.63[-2]	1.03[-1]	1.10[-1]
2	11	3.97[-1]	3.94[-1]	3.79[-1]	3.67[-1]	3.68[-1]	3.73[-1]	3.89[-1]	4.10[-1]
3	11	5.37[-1]	5.28[-1]	5.05[-1]	4.86[-1]	4.84[-1]	4.85[-1]	4.92[-1]	5.04[-1]
4	11	4.47[-1]	4.37[-1]	4.17[-1]	4.01[-1]	3.99[-1]	3.98[-1]	4.03[-1]	4.12[-1]

Table 5.3.3b. (continued)

Levels		$T(K)$							
i	j	1000	3000	5000	10000	15000	20000	30000	40000
6	11	1.28[-1]	1.11[-1]	1.01[-1]	9.39[-2]	9.41[-2]	9.44[-2]	9.52[-2]	9.63[-2]
7	11	2.72[-1]	2.26[-1]	2.00[-1]	1.81[-1]	1.80[-1]	1.80[-1]	1.84[-1]	1.89[-1]
8	11	1.19[-1]	1.03[-1]	9.30[-2]	8.54[-2]	8.50[-2]	8.55[-2]	8.82[-2]	9.18[-2]
9	11	3.55[-1]	3.74[-1]	3.77[-1]	3.79[-1]	3.77[-1]	3.70[-1]	3.48[-1]	3.28[-1]
10	11	2.95	3.07	3.10	3.07	2.97	2.86	2.64	2.47
1	12	1.67	1.27	1.15	1.07	1.02	9.87[-1]	9.24[-1]	8.77[-1]
2	12	7.61[-1]	6.10[-1]	5.65[-1]	5.38[-1]	5.29[-1]	5.18[-1]	4.96[-1]	4.77[-1]
3	12	3.17[-1]	2.70[-1]	2.55[-1]	2.49[-1]	2.48[-1]	2.47[-1]	2.40[-1]	2.33[-1]
4	12	1.17[-1]	1.06[-1]	1.02[-1]	1.01[-1]	1.03[-1]	1.03[-1]	1.02[-1]	1.00[-1]
5	12	2.86[-2]	2.69[-2]	2.63[-2]	2.65[-2]	2.72[-2]	2.75[-2]	2.75[-2]	2.71[-2]
6	12	1.03	1.02	9.96[-1]	9.42[-1]	9.03[-1]	8.68[-1]	8.08[-1]	7.60[-1]
7	12	6.42[-1]	6.71[-1]	6.50[-1]	6.03[-1]	5.71[-1]	5.46[-1]	5.07[-1]	4.77[-1]
8	12	2.22[-1]	2.45[-1]	2.37[-1]	2.16[-1]	2.03[-1]	1.93[-1]	1.78[-1]	1.67[-1]
9	12	2.59	2.34	2.13	1.85	1.70	1.59	1.48	1.42
10	12	1.13	1.03	9.42[-1]	8.14[-1]	7.46[-1]	7.02[-1]	6.50[-1]	6.24[-1]
11	12	2.12[-1]	2.13[-1]	2.00[-1]	1.80[-1]	1.70[-1]	1.62[-1]	1.52[-1]	1.47[-1]
1	13	5.82[-1]	4.84[-1]	4.53[-1]	4.35[-1]	4.31[-1]	4.24[-1]	4.10[-1]	3.96[-1]
2	13	7.44[-1]	5.66[-1]	5.16[-1]	4.84[-1]	4.67[-1]	4.51[-1]	4.24[-1]	4.04[-1]
3	13	5.45[-1]	4.20[-1]	3.85[-1]	3.62[-1]	3.51[-1]	3.41[-1]	3.23[-1]	3.10[-1]
4	13	2.92[-1]	2.34[-1]	2.17[-1]	2.07[-1]	2.03[-1]	1.99[-1]	1.92[-1]	1.86[-1]
5	13	8.73[-2]	7.25[-2]	6.78[-2]	6.54[-2]	6.50[-2]	6.44[-2]	6.28[-2]	6.13[-2]
6	13	8.23[-1]	8.46[-1]	8.21[-1]	7.68[-1]	7.33[-1]	7.03[-1]	6.56[-1]	6.18[-1]
7	13	4.98[-1]	5.18[-1]	5.03[-1]	4.72[-1]	4.50[-1]	4.31[-1]	3.99[-1]	3.74[-1]
8	13	1.55[-1]	1.46[-1]	1.43[-1]	1.37[-1]	1.34[-1]	1.30[-1]	1.24[-1]	1.18[-1]
9	13	9.35[-1]	8.54[-1]	7.77[-1]	6.67[-1]	6.08[-1]	5.70[-1]	5.27[-1]	5.06[-1]
10	13	1.09	1.00	9.25[-1]	8.37[-1]	7.88[-1]	7.51[-1]	6.99[-1]	6.69[-1]
11	13	1.06	9.56[-1]	8.76[-1]	7.78[-1]	7.28[-1]	6.93[-1]	6.44[-1]	6.13[-1]
12	13	1.22	1.23	1.23	1.25	1.24	1.21	1.14	1.07
1	14	1.79[-1]	1.63[-1]	1.58[-1]	1.57[-1]	1.60[-1]	1.61[-1]	1.59[-1]	1.56[-1]
2	14	3.85[-1]	3.16[-1]	2.95[-1]	2.85[-1]	2.83[-1]	2.79[-1]	2.71[-1]	2.63[-1]
3	14	4.88[-1]	3.76[-1]	3.44[-1]	3.24[-1]	3.15[-1]	3.07[-1]	2.93[-1]	2.84[-1]
4	14	4.02[-1]	3.00[-1]	2.71[-1]	2.53[-1]	2.43[-1]	2.34[-1]	2.21[-1]	2.14[-1]
5	14	1.54[-1]	1.14[-1]	1.03[-1]	9.50[-2]	9.08[-2]	8.72[-2]	8.19[-2]	7.88[-2]
6	14	6.03[-1]	6.45[-1]	6.25[-1]	5.79[-1]	5.49[-1]	5.25[-1]	4.88[-1]	4.59[-1]
7	14	3.36[-1]	3.21[-1]	3.13[-1]	3.02[-1]	2.94[-1]	2.86[-1]	2.70[-1]	2.57[-1]
8	14	1.15[-1]	1.12[-1]	1.10[-1]	1.06[-1]	1.03[-1]	9.93[-2]	9.28[-2]	8.73[-2]
9	14	9.40[-2]	1.04[-1]	9.94[-2]	9.05[-2]	8.58[-2]	8.23[-2]	7.76[-2]	7.49[-2]
10	14	8.56[-1]	7.74[-1]	7.08[-1]	6.26[-1]	5.84[-1]	5.56[-1]	5.20[-1]	4.99[-1]
11	14	1.25	1.13	1.04	9.41[-1]	8.89[-1]	8.48[-1]	7.85[-1]	7.39[-1]
12	14	2.73[-1]	2.83[-1]	2.83[-1]	2.92[-1]	2.95[-1]	2.91[-1]	2.75[-1]	2.58[-1]
13	14	1.04	1.04	1.05	1.10	1.11	1.10	1.04	9.87[-1]
1	15	8.39[-1]	1.03	1.07	1.10	1.09	1.08	1.04	1.02
2	15	3.82[-1]	4.74[-1]	4.89[-1]	4.98[-1]	4.97[-1]	4.92[-1]	4.81[-1]	4.72[-1]
3	15	1.48[-1]	1.81[-1]	1.85[-1]	1.87[-1]	1.87[-1]	1.86[-1]	1.83[-1]	1.81[-1]
4	15	4.81[-2]	5.51[-2]	5.54[-2]	5.49[-2]	5.48[-2]	5.46[-2]	5.43[-2]	5.40[-2]
5	15	1.01[-2]	1.05[-2]	1.02[-2]	9.94[-3]	9.91[-3]	9.92[-3]	9.97[-3]	1.00[-2]
6	15	6.00[-1]	6.95[-1]	6.65[-1]	6.07[-1]	5.72[-1]	5.47[-1]	5.17[-1]	5.01[-1]
7	15	2.47[-1]	2.80[-1]	2.66[-1]	2.42[-1]	2.26[-1]	2.14[-1]	1.96[-1]	1.84[-1]
8	15	4.45[-2]	4.28[-2]	3.98[-2]	3.79[-2]	3.73[-2]	3.64[-2]	3.42[-2]	3.20[-2]
9	15	2.87	2.86	2.80	2.72	2.67	2.61	2.50	2.40

Table 5.3.3b. (continued)

Levels		$T(K)$							
i	j	1000	3000	5000	10000	15000	20000	30000	40000
10	15	1.23	1.24	1.26	1.28	1.26	1.24	1.18	1.13
11	15	3.37[-1]	3.35[-1]	3.43[-1]	3.75[-1]	3.88[-1]	3.90[-1]	3.81[-1]	3.71[-1]
12	15	1.67	1.71	1.67	1.71	1.72	1.69	1.59	1.49
13	15	6.45[-1]	6.80[-1]	6.74[-1]	6.85[-1]	6.89[-1]	6.78[-1]	6.41[-1]	6.04[-1]
14	15	1.41[-1]	1.58[-1]	1.57[-1]	1.60[-1]	1.61[-1]	1.59[-1]	1.50[-1]	1.42[-1]
1	16	3.25[-1]	4.05[-1]	4.19[-1]	4.28[-1]	4.27[-1]	4.24[-1]	4.16[-1]	4.09[-1]
2	16	3.84[-1]	4.66[-1]	4.85[-1]	5.11[-1]	5.16[-1]	5.13[-1]	4.99[-1]	4.87[-1]
3	16	2.77[-1]	3.40[-1]	3.54[-1]	3.70[-1]	3.74[-1]	3.71[-1]	3.63[-1]	3.56[-1]
4	16	1.48[-1]	1.87[-1]	1.95[-1]	2.01[-1]	2.02[-1]	2.01[-1]	1.99[-1]	1.97[-1]
5	16	4.44[-2]	5.70[-2]	5.96[-2]	6.12[-2]	6.15[-2]	6.14[-2]	6.12[-2]	6.11[-2]
6	16	3.95[-1]	4.52[-1]	4.33[-1]	3.99[-1]	3.78[-1]	3.60[-1]	3.35[-1]	3.19[-1]
7	16	2.21[-1]	2.44[-1]	2.35[-1]	2.28[-1]	2.22[-1]	2.16[-1]	2.06[-1]	2.00[-1]
8	16	1.14[-1]	1.38[-1]	1.35[-1]	1.27[-1]	1.20[-1]	1.13[-1]	1.03[-1]	9.52[-2]
9	16	1.15	1.16	1.18	1.20	1.19	1.16	1.11	1.07
10	16	1.43	1.52	1.60	1.69	1.70	1.67	1.58	1.51
11	16	1.11	1.13	1.17	1.23	1.23	1.21	1.16	1.11
12	16	7.21[-1]	7.61[-1]	7.56[-1]	7.74[-1]	7.80[-1]	7.69[-1]	7.28[-1]	6.86[-1]
13	16	7.39[-1]	7.64[-1]	7.62[-1]	8.13[-1]	8.32[-1]	8.22[-1]	7.72[-1]	7.19[-1]
14	16	5.52[-1]	5.83[-1]	5.86[-1]	6.14[-1]	6.26[-1]	6.22[-1]	5.95[-1]	5.64[-1]
15	16	1.60	1.75	1.76	1.75	1.70	1.64	1.52	1.42
1	17	9.40[-2]	1.08[-1]	1.09[-1]	1.09[-1]	1.09[-1]	1.09[-1]	1.08[-1]	1.08[-1]
2	17	2.28[-1]	2.86[-1]	2.98[-1]	3.08[-1]	3.10[-1]	3.09[-1]	3.07[-1]	3.04[-1]
3	17	2.77[-1]	3.45[-1]	3.63[-1]	3.83[-1]	3.88[-1]	3.88[-1]	3.87[-1]	3.87[-1]
4	17	2.22[-1]	2.74[-1]	2.90[-1]	3.10[-1]	3.15[-1]	3.15[-1]	3.13[-1]	3.12[-1]
5	17	8.43[-2]	1.04[-1]	1.10[-1]	1.18[-1]	1.20[-1]	1.20[-1]	1.19[-1]	1.18[-1]
6	17	2.21[-1]	2.41[-1]	2.31[-1]	2.18[-1]	2.09[-1]	2.00[-1]	1.85[-1]	1.74[-1]
7	17	2.61[-1]	3.11[-1]	3.04[-1]	2.90[-1]	2.77[-1]	2.64[-1]	2.45[-1]	2.31[-1]
8	17	8.50[-2]	9.71[-2]	9.46[-2]	9.31[-2]	9.10[-2]	8.84[-2]	8.35[-2]	7.99[-2]
9	17	2.79[-1]	2.75[-1]	2.77[-1]	2.90[-1]	2.97[-1]	2.97[-1]	2.92[-1]	2.87[-1]
10	17	1.02	1.04	1.07	1.12	1.12	1.10	1.05	1.01
11	17	1.59	1.70	1.80	1.94	1.96	1.92	1.83	1.74
12	17	1.92[-1]	2.12[-1]	2.12[-1]	2.16[-1]	2.17[-1]	2.14[-1]	2.02[-1]	1.90[-1]
13	17	6.29[-1]	6.63[-1]	6.66[-1]	6.99[-1]	7.13[-1]	7.08[-1]	6.78[-1]	6.45[-1]
14	17	7.47[-1]	7.70[-1]	7.75[-1]	8.37[-1]	8.65[-1]	8.62[-1]	8.28[-1]	7.89[-1]
15	17	2.72[-1]	2.88[-1]	2.82[-1]	2.95[-1]	2.96[-1]	2.88[-1]	2.64[-1]	2.41[-1]
16	17	1.46	1.61	1.65	1.67	1.64	1.59	1.47	1.37
1	18	8.98[-1]	1.20	1.35	1.36	1.28	1.20	1.07	9.70[-1]
2	18	5.19[-1]	8.00[-1]	9.43[-1]	9.86[-1]	9.34[-1]	8.79[-1]	7.86[-1]	7.11[-1]
3	18	5.66[-1]	7.31[-1]	8.03[-1]	7.96[-1]	7.43[-1]	6.95[-1]	6.19[-1]	5.60[-1]
4	18	3.35[-1]	4.32[-1]	4.76[-1]	4.73[-1]	4.42[-1]	4.14[-1]	3.69[-1]	3.34[-1]
5	18	1.20[-1]	1.56[-1]	1.71[-1]	1.67[-1]	1.56[-1]	1.45[-1]	1.29[-1]	1.17[-1]
1	19	6.26[-1]	6.07[-1]	6.58[-1]	7.27[-1]	7.27[-1]	7.08[-1]	6.65[-1]	6.31[-1]
2	19	4.41[-1]	3.83[-1]	4.00[-1]	4.36[-1]	4.38[-1]	4.29[-1]	4.08[-1]	3.90[-1]
3	19	2.36[-1]	2.13[-1]	2.25[-1]	2.47[-1]	2.51[-1]	2.48[-1]	2.38[-1]	2.29[-1]
4	19	1.13[-1]	1.07[-1]	1.14[-1]	1.26[-1]	1.29[-1]	1.29[-1]	1.25[-1]	1.21[-1]
5	19	3.45[-2]	3.32[-2]	3.54[-2]	3.91[-2]	4.02[-2]	4.01[-2]	3.90[-2]	3.79[-2]
1	20	3.05[-1]	2.83[-1]	2.99[-1]	3.29[-1]	3.34[-1]	3.30[-1]	3.16[-1]	3.05[-1]
2	20	4.83[-1]	3.54[-1]	3.54[-1]	3.70[-1]	3.66[-1]	3.56[-1]	3.35[-1]	3.18[-1]
3	20	3.43[-1]	2.58[-1]	2.60[-1]	2.74[-1]	2.71[-1]	2.63[-1]	2.47[-1]	2.34[-1]
4	20	1.68[-1]	1.38[-1]	1.43[-1]	1.54[-1]	1.54[-1]	1.50[-1]	1.42[-1]	1.35[-1]

Table 5.3.3b. (continued)

Levels		$T(K)$							
i	j	1000	3000	5000	10000	15000	20000	30000	40000
5	20	4.57[-2]	4.13[-2]	4.35[-2]	4.78[-2]	4.82[-2]	4.73[-2]	4.50[-2]	4.31[-2]
1	21	1.33[-1]	1.28[-1]	1.36[-1]	1.50[-1]	1.53[-1]	1.53[-1]	1.49[-1]	1.45[-1]
2	21	1.62[-1]	1.49[-1]	1.57[-1]	1.73[-1]	1.75[-1]	1.72[-1]	1.64[-1]	1.58[-1]
3	21	2.27[-1]	1.72[-1]	1.74[-1]	1.84[-1]	1.82[-1]	1.77[-1]	1.65[-1]	1.57[-1]
4	21	2.04[-1]	1.41[-1]	1.39[-1]	1.44[-1]	1.40[-1]	1.35[-1]	1.25[-1]	1.18[-1]
5	21	8.14[-2]	5.46[-2]	5.33[-2]	5.42[-2]	5.27[-2]	5.05[-2]	4.67[-2]	4.39[-2]
1	22	1.08	1.57	1.68	1.61	1.54	1.49	1.40	1.30
2	22	8.54[-1]	1.27	1.36	1.30	1.25	1.21	1.13	1.06
3	22	6.37[-1]	9.16[-1]	9.75[-1]	9.30[-1]	8.93[-1]	8.65[-1]	8.09[-1]	7.56[-1]
4	22	3.78[-1]	5.45[-1]	5.81[-1]	5.54[-1]	5.33[-1]	5.16[-1]	4.83[-1]	4.51[-1]
5	22	1.37[-1]	1.96[-1]	2.08[-1]	1.97[-1]	1.89[-1]	1.83[-1]	1.72[-1]	1.60[-1]
1	23	5.82[-1]	4.46[-1]	3.84[-1]	3.23[-1]	2.95[-1]	2.78[-1]	2.56[-1]	2.43[-1]
2	23	2.77[-1]	2.37[-1]	2.18[-1]	2.01[-1]	1.94[-1]	1.88[-1]	1.80[-1]	1.75[-1]
3	23	1.24[-1]	1.21[-1]	1.20[-1]	1.20[-1]	1.20[-1]	1.19[-1]	1.18[-1]	1.16[-1]
4	23	5.10[-2]	5.70[-2]	5.99[-2]	6.37[-2]	6.52[-2]	6.58[-2]	6.59[-2]	6.56[-2]
5	23	1.37[-2]	1.67[-2]	1.81[-2]	1.99[-2]	2.06[-2]	2.09[-2]	2.12[-2]	2.12[-2]
1	24	7.73[-2]	9.53[-2]	1.04[-1]	1.14[-1]	1.18[-1]	1.21[-1]	1.22[-1]	1.21[-1]
2	24	2.25[-1]	1.76[-1]	1.53[-1]	1.31[-1]	1.21[-1]	1.15[-1]	1.07[-1]	1.02[-1]
3	24	1.87[-1]	1.44[-1]	1.25[-1]	1.05[-1]	9.63[-2]	9.07[-2]	8.36[-2]	7.93[-2]
4	24	1.06[-1]	8.40[-2]	7.41[-2]	6.44[-2]	6.01[-2]	5.74[-2]	5.36[-2]	5.12[-2]
5	24	3.24[-2]	2.66[-2]	2.39[-2]	2.14[-2]	2.03[-2]	1.96[-2]	1.85[-2]	1.78[-2]
1	25	1.89[-2]	2.56[-2]	2.89[-2]	3.26[-2]	3.40[-2]	3.47[-2]	3.53[-2]	3.54[-2]
2	25	2.61[-2]	3.06[-2]	3.27[-2]	3.53[-2]	3.65[-2]	3.70[-2]	3.71[-2]	3.68[-2]
3	25	6.56[-2]	5.11[-2]	4.44[-2]	3.79[-2]	3.50[-2]	3.31[-2]	3.07[-2]	2.91[-2]
4	25	6.99[-2]	4.90[-2]	3.95[-2]	2.99[-2]	2.55[-2]	2.29[-2]	1.98[-2]	1.80[-2]
5	25	2.96[-2]	2.01[-2]	1.58[-2]	1.13[-2]	9.34[-3]	8.15[-3]	6.77[-3]	5.99[-3]
1	26	8.13[-1]	7.07[-1]	6.64[-1]	6.13[-1]	5.79[-1]	5.56[-1]	5.27[-1]	5.10[-1]
2	26	3.92[-1]	3.75[-1]	3.68[-1]	3.56[-1]	3.43[-1]	3.34[-1]	3.22[-1]	3.16[-1]
3	26	1.67[-1]	1.74[-1]	1.79[-1]	1.79[-1]	1.74[-1]	1.69[-1]	1.63[-1]	1.59[-1]
4	26	6.23[-2]	6.71[-2]	7.06[-2]	7.07[-2]	6.85[-2]	6.64[-2]	6.37[-2]	6.19[-2]
5	26	1.55[-2]	1.62[-2]	1.69[-2]	1.67[-2]	1.61[-2]	1.55[-2]	1.48[-2]	1.43[-2]
1	27	3.03[-1]	3.15[-1]	3.25[-1]	3.26[-1]	3.17[-1]	3.09[-1]	2.99[-1]	2.92[-1]
2	27	3.84[-1]	3.20[-1]	2.90[-1]	2.56[-1]	2.36[-1]	2.23[-1]	2.07[-1]	1.98[-1]
3	27	2.82[-1]	2.52[-1]	2.40[-1]	2.21[-1]	2.08[-1]	1.98[-1]	1.86[-1]	1.79[-1]
4	27	1.54[-1]	1.54[-1]	1.54[-1]	1.52[-1]	1.47[-1]	1.43[-1]	1.38[-1]	1.35[-1]
5	27	4.72[-2]	5.07[-2]	5.26[-2]	5.37[-2]	5.30[-2]	5.23[-2]	5.13[-2]	5.07[-2]
1	28	9.63[-2]	1.04[-1]	1.09[-1]	1.09[-1]	1.05[-1]	1.02[-1]	9.70[-2]	9.39[-2]
2	28	2.06[-1]	2.18[-1]	2.26[-1]	2.27[-1]	2.20[-1]	2.14[-1]	2.05[-1]	2.00[-1]
3	28	2.57[-1]	2.38[-1]	2.32[-1]	2.19[-1]	2.08[-1]	1.99[-1]	1.88[-1]	1.82[-1]
4	28	2.09[-1]	1.77[-1]	1.62[-1]	1.45[-1]	1.35[-1]	1.28[-1]	1.20[-1]	1.15[-1]
5	28	8.01[-2]	6.46[-2]	5.71[-2]	4.93[-2]	4.53[-2]	4.27[-2]	3.97[-2]	3.80[-2]
1	29	1.29	1.12	1.07	1.01	1.05	1.14	1.29	1.36
2	29	4.79[-1]	4.16[-1]	3.93[-1]	3.59[-1]	3.75[-1]	4.18[-1]	4.92[-1]	5.25[-1]
3	29	2.09[-1]	2.03[-1]	1.96[-1]	1.74[-1]	1.77[-1]	1.94[-1]	2.26[-1]	2.40[-1]
4	29	1.16[-1]	1.00[-1]	9.19[-2]	7.83[-2]	7.67[-2]	8.16[-2]	9.19[-2]	9.63[-2]
5	29	4.37[-2]	3.89[-2]	3.62[-2]	3.04[-2]	2.80[-2]	2.76[-2]	2.80[-2]	2.78[-2]
1	30	7.62[-1]	7.13[-1]	6.87[-1]	6.21[-1]	6.18[-1]	6.52[-1]	7.17[-1]	7.42[-1]
2	30	7.35[-1]	8.65[-1]	8.75[-1]	8.15[-1]	8.04[-1]	8.30[-1]	8.86[-1]	9.06[-1]
3	30	4.86[-1]	4.77[-1]	4.70[-1]	4.26[-1]	4.10[-1]	4.13[-1]	4.25[-1]	4.23[-1]
4	30	1.44[-1]	1.31[-1]	1.24[-1]	1.10[-1]	1.09[-1]	1.17[-1]	1.31[-1]	1.37[-1]

Table 5.3.3b. (continued)

Levels		$T(K)$							
i	j	1000	3000	5000	10000	15000	20000	30000	40000
5	30	4.93[-2]	4.44[-2]	4.13[-2]	3.52[-2]	3.52[-2]	3.83[-2]	4.45[-2]	4.73[-2]
1	31	4.36[-1]	4.14[-1]	3.99[-1]	3.57[-1]	3.52[-1]	3.70[-1]	4.07[-1]	4.21[-1]
2	31	6.69[-1]	7.49[-1]	7.63[-1]	7.10[-1]	6.86[-1]	6.90[-1]	7.07[-1]	7.05[-1]
3	31	5.20[-1]	5.98[-1]	6.11[-1]	5.69[-1]	5.55[-1]	5.64[-1]	5.88[-1]	5.92[-1]
4	31	3.05[-1]	2.68[-1]	2.56[-1]	2.29[-1]	2.24[-1]	2.29[-1]	2.42[-1]	2.44[-1]
5	31	6.08[-2]	7.02[-2]	7.22[-2]	6.64[-2]	6.34[-2]	6.32[-2]	6.38[-2]	6.27[-2]
1	32	2.51[-1]	2.32[-1]	2.20[-1]	1.92[-1]	1.88[-1]	1.99[-1]	2.22[-1]	2.31[-1]
2	32	3.99[-1]	4.11[-1]	4.08[-1]	3.73[-1]	3.65[-1]	3.75[-1]	3.97[-1]	4.02[-1]
3	32	5.29[-1]	5.61[-1]	5.61[-1]	5.15[-1]	5.00[-1]	5.09[-1]	5.31[-1]	5.34[-1]
4	32	3.49[-1]	4.12[-1]	4.26[-1]	4.01[-1]	3.87[-1]	3.89[-1]	3.96[-1]	3.94[-1]
5	32	1.68[-1]	1.65[-1]	1.65[-1]	1.51[-1]	1.43[-1]	1.40[-1]	1.38[-1]	1.33[-1]
1	33	1.62[-1]	1.47[-1]	1.37[-1]	1.17[-1]	1.11[-1]	1.15[-1]	1.23[-1]	1.26[-1]
2	33	2.18[-1]	2.19[-1]	2.14[-1]	1.91[-1]	1.90[-1]	2.01[-1]	2.24[-1]	2.32[-1]
3	33	3.68[-1]	4.00[-1]	4.07[-1]	3.75[-1]	3.59[-1]	3.59[-1]	3.65[-1]	3.62[-1]
4	33	4.28[-1]	4.82[-1]	4.96[-1]	4.64[-1]	4.44[-1]	4.41[-1]	4.44[-1]	4.37[-1]
5	33	1.73[-1]	2.19[-1]	2.31[-1]	2.20[-1]	2.12[-1]	2.11[-1]	2.13[-1]	2.11[-1]
1	34	7.21[-1]	8.91[-1]	8.81[-1]	7.92[-1]	7.58[-1]	7.46[-1]	7.22[-1]	6.86[-1]
2	34	5.22[-1]	6.28[-1]	6.16[-1]	5.46[-1]	5.12[-1]	4.97[-1]	4.72[-1]	4.45[-1]
3	34	3.05[-1]	3.75[-1]	3.77[-1]	3.37[-1]	3.15[-1]	3.04[-1]	2.87[-1]	2.69[-1]
4	34	1.60[-1]	1.93[-1]	1.92[-1]	1.67[-1]	1.53[-1]	1.45[-1]	1.34[-1]	1.23[-1]
5	34	6.17[-2]	7.49[-2]	7.32[-2]	6.20[-2]	5.53[-2]	5.14[-2]	4.62[-2]	4.20[-2]
1	35	4.50[-1]	6.18[-1]	6.26[-1]	5.50[-1]	5.03[-1]	4.76[-1]	4.39[-1]	4.07[-1]
2	35	3.78[-1]	4.66[-1]	4.59[-1]	4.03[-1]	3.77[-1]	3.65[-1]	3.45[-1]	3.22[-1]
3	35	3.07[-1]	3.98[-1]	4.00[-1]	3.55[-1]	3.34[-1]	3.24[-1]	3.08[-1]	2.89[-1]
4	35	2.05[-1]	2.75[-1]	2.79[-1]	2.49[-1]	2.32[-1]	2.24[-1]	2.12[-1]	1.99[-1]
5	35	7.46[-2]	1.09[-1]	1.14[-1]	1.02[-1]	9.43[-2]	9.00[-2]	8.39[-2]	7.85[-2]
1	36	1.63[-1]	2.23[-1]	2.26[-1]	1.96[-1]	1.77[-1]	1.66[-1]	1.50[-1]	1.37[-1]
2	36	2.53[-1]	3.49[-1]	3.55[-1]	3.14[-1]	2.88[-1]	2.74[-1]	2.54[-1]	2.37[-1]
3	36	1.98[-1]	2.70[-1]	2.77[-1]	2.51[-1]	2.37[-1]	2.30[-1]	2.19[-1]	2.06[-1]
4	36	1.28[-1]	1.62[-1]	1.65[-1]	1.51[-1]	1.46[-1]	1.45[-1]	1.41[-1]	1.34[-1]
5	36	5.14[-2]	6.31[-2]	6.26[-2]	5.66[-2]	5.51[-2]	5.51[-2]	5.41[-2]	5.14[-2]
1	37	1.17	1.49	1.55	1.45	1.37	1.31	1.22	1.14
2	37	7.95[-1]	8.80[-1]	8.81[-1]	7.98[-1]	7.37[-1]	6.99[-1]	6.43[-1]	5.96[-1]
3	37	5.24[-1]	5.16[-1]	4.92[-1]	4.25[-1]	3.86[-1]	3.64[-1]	3.33[-1]	3.07[-1]
4	37	2.10[-1]	2.16[-1]	2.08[-1]	1.81[-1]	1.64[-1]	1.55[-1]	1.41[-1]	1.29[-1]
5	37	8.31[-2]	8.29[-2]	7.81[-2]	6.55[-2]	5.81[-2]	5.35[-2]	4.73[-2]	4.25[-2]
1	38	8.10[-1]	9.23[-1]	9.22[-1]	8.31[-1]	7.67[-1]	7.28[-1]	6.70[-1]	6.20[-1]
2	38	1.28	1.14	1.03	8.66[-1]	7.89[-1]	7.47[-1]	6.88[-1]	6.35[-1]
3	38	8.51[-1]	7.72[-1]	7.11[-1]	6.04[-1]	5.53[-1]	5.26[-1]	4.87[-1]	4.52[-1]
4	38	3.73[-1]	3.65[-1]	3.47[-1]	2.98[-1]	2.71[-1]	2.56[-1]	2.35[-1]	2.18[-1]
5	38	1.03[-1]	1.12[-1]	1.11[-1]	9.73[-2]	8.81[-2]	8.24[-2]	7.44[-2]	6.80[-2]
1	39	5.20[-1]	5.25[-1]	5.08[-1]	4.45[-1]	4.05[-1]	3.81[-1]	3.48[-1]	3.20[-1]
2	39	8.34[-1]	7.77[-1]	7.30[-1]	6.33[-1]	5.81[-1]	5.51[-1]	5.08[-1]	4.70[-1]
3	39	8.75[-1]	7.62[-1]	6.89[-1]	5.74[-1]	5.18[-1]	4.87[-1]	4.45[-1]	4.10[-1]
4	39	4.90[-1]	4.53[-1]	4.27[-1]	3.71[-1]	3.41[-1]	3.24[-1]	2.98[-1]	2.76[-1]
5	39	2.54[-1]	2.22[-1]	2.02[-1]	1.66[-1]	1.48[-1]	1.37[-1]	1.22[-1]	1.12[-1]
1	40	2.06[-1]	2.14[-1]	2.09[-1]	1.84[-1]	1.68[-1]	1.58[-1]	1.44[-1]	1.32[-1]
2	40	3.65[-1]	3.68[-1]	3.58[-1]	3.16[-1]	2.88[-1]	2.72[-1]	2.49[-1]	2.30[-1]
3	40	4.90[-1]	4.53[-1]	4.27[-1]	3.72[-1]	3.42[-1]	3.25[-1]	2.99[-1]	2.77[-1]
4	40	7.33[-1]	5.77[-1]	4.92[-1]	3.82[-1]	3.33[-1]	3.06[-1]	2.72[-1]	2.48[-1]

Table 5.3.3b. (continued)

Levels		$T(K)$							
i	j	1000	3000	5000	10000	15000	20000	30000	40000
5	40	2.32[-1]	1.76[-1]	1.53[-1]	1.25[-1]	1.14[-1]	1.08[-1]	9.90[-2]	9.12[-2]
1	41	8.35[-2]	8.36[-2]	7.88[-2]	6.61[-2]	5.87[-2]	5.41[-2]	4.78[-2]	4.30[-2]
2	41	1.03[-1]	1.12[-1]	1.11[-1]	9.78[-2]	8.86[-2]	8.29[-2]	7.49[-2]	6.85[-2]
3	41	2.55[-1]	2.24[-1]	2.05[-1]	1.69[-1]	1.50[-1]	1.39[-1]	1.25[-1]	1.14[-1]
4	41	2.32[-1]	1.77[-1]	1.53[-1]	1.25[-1]	1.14[-1]	1.08[-1]	9.94[-2]	9.15[-2]
5	41	1.51[-1]	1.13[-1]	9.13[-2]	6.62[-2]	5.58[-2]	5.03[-2]	4.37[-2]	3.92[-2]
1	42	4.69[-1]	5.40[-1]	5.38[-1]	5.18[-1]	5.41[-1]	5.68[-1]	5.90[-1]	5.81[-1]
2	42	1.79[-1]	2.25[-1]	2.32[-1]	2.32[-1]	2.52[-1]	2.73[-1]	2.91[-1]	2.88[-1]
3	42	4.59[-2]	6.54[-2]	7.09[-2]	7.71[-2]	9.13[-2]	1.04[-1]	1.17[-1]	1.19[-1]
4	42	1.01[-2]	1.73[-2]	2.00[-2]	2.42[-2]	3.15[-2]	3.80[-2]	4.48[-2]	4.60[-2]
5	42	2.73[-3]	4.60[-3]	5.35[-3]	6.65[-3]	8.74[-3]	1.06[-2]	1.25[-2]	1.28[-2]
1	43	9.56[-2]	1.36[-1]	1.47[-1]	1.58[-1]	1.82[-1]	2.04[-1]	2.26[-1]	2.27[-1]
2	43	3.60[-1]	4.00[-1]	3.90[-1]	3.64[-1]	3.68[-1]	3.78[-1]	3.81[-1]	3.69[-1]
3	43	1.98[-1]	2.26[-1]	2.23[-1]	2.15[-1]	2.25[-1]	2.37[-1]	2.47[-1]	2.42[-1]
4	43	5.96[-2]	7.79[-2]	8.13[-2]	8.37[-2]	9.41[-2]	1.04[-1]	1.14[-1]	1.14[-1]
5	43	8.07[-3]	1.48[-2]	1.70[-2]	1.92[-2]	2.32[-2]	2.70[-2]	3.08[-2]	3.12[-2]
1	44	2.38[-2]	3.90[-2]	4.45[-2]	5.22[-2]	6.53[-2]	7.70[-2]	8.90[-2]	9.07[-2]
2	44	9.63[-2]	1.24[-1]	1.29[-1]	1.31[-1]	1.45[-1]	1.60[-1]	1.73[-1]	1.73[-1]
3	44	1.85[-1]	2.16[-1]	2.16[-1]	2.08[-1]	2.18[-1]	2.29[-1]	2.37[-1]	2.33[-1]
4	44	2.15[-1]	2.40[-1]	2.34[-1]	2.16[-1]	2.17[-1]	2.22[-1]	2.22[-1]	2.15[-1]
5	44	9.74[-2]	1.07[-1]	1.03[-1]	9.38[-2]	9.26[-2]	9.32[-2]	9.21[-2]	8.84[-2]
1	45	1.46[-1]	1.69[-1]	1.75[-1]	1.73[-1]	1.75[-1]	1.76[-1]	1.74[-1]	1.66[-1]
2	45	1.06[-1]	1.28[-1]	1.36[-1]	1.38[-1]	1.45[-1]	1.53[-1]	1.57[-1]	1.54[-1]
3	45	6.19[-2]	7.60[-2]	8.08[-2]	8.26[-2]	8.79[-2]	9.31[-2]	9.71[-2]	9.53[-2]
4	45	3.20[-2]	3.82[-2]	4.04[-2]	4.12[-2]	4.43[-2]	4.73[-2]	4.97[-2]	4.89[-2]
5	45	1.01[-2]	1.16[-2]	1.21[-2]	1.24[-2]	1.34[-2]	1.44[-2]	1.53[-2]	1.51[-2]
1	46	6.22[-2]	7.38[-2]	7.69[-2]	7.56[-2]	7.73[-2]	7.93[-2]	8.00[-2]	7.74[-2]
2	46	4.38[-2]	5.09[-2]	5.39[-2]	5.61[-2]	6.06[-2]	6.46[-2]	6.74[-2]	6.60[-2]
3	46	4.56[-2]	5.54[-2]	5.87[-2]	5.99[-2]	6.31[-2]	6.60[-2]	6.78[-2]	6.61[-2]
4	46	4.07[-2]	4.95[-2]	5.21[-2]	5.21[-2]	5.38[-2]	5.56[-2]	5.64[-2]	5.48[-2]
5	46	1.67[-2]	2.03[-2]	2.12[-2]	2.10[-2]	2.16[-2]	2.22[-2]	2.24[-2]	2.17[-2]
1	47	1.05[-2]	1.15[-2]	1.22[-2]	1.34[-2]	1.61[-2]	1.86[-2]	2.10[-2]	2.12[-2]
2	47	3.52[-2]	4.23[-2]	4.40[-2]	4.33[-2]	4.47[-2]	4.63[-2]	4.74[-2]	4.62[-2]
3	47	2.36[-2]	2.86[-2]	3.02[-2]	3.04[-2]	3.14[-2]	3.23[-2]	3.26[-2]	3.16[-2]
4	47	8.88[-3]	1.10[-2]	1.20[-2]	1.29[-2]	1.35[-2]	1.40[-2]	1.40[-2]	1.34[-2]
5	47	1.63[-3]	2.08[-3]	2.44[-3]	2.87[-3]	3.12[-3]	3.24[-3]	3.21[-3]	3.02[-3]
1	48	2.94[-1]	2.91[-1]	2.78[-1]	2.54[-1]	2.45[-1]	2.37[-1]	2.21[-1]	2.05[-1]
2	48	1.93[-1]	1.91[-1]	1.83[-1]	1.67[-1]	1.60[-1]	1.54[-1]	1.43[-1]	1.32[-1]
3	48	1.05[-1]	1.03[-1]	9.81[-2]	8.81[-2]	8.29[-2]	7.90[-2]	7.20[-2]	6.58[-2]
4	48	4.79[-2]	4.79[-2]	4.55[-2]	4.03[-2]	3.71[-2]	3.47[-2]	3.09[-2]	2.77[-2]
5	48	1.35[-2]	1.38[-2]	1.32[-2]	1.16[-2]	1.05[-2]	9.70[-3]	8.45[-3]	7.48[-3]
1	49	1.66[-1]	1.57[-1]	1.47[-1]	1.31[-1]	1.23[-1]	1.17[-1]	1.06[-1]	9.72[-2]
2	49	1.50[-1]	1.45[-1]	1.37[-1]	1.24[-1]	1.20[-1]	1.16[-1]	1.08[-1]	9.91[-2]
3	49	1.23[-1]	1.18[-1]	1.11[-1]	1.00[-1]	9.59[-2]	9.28[-2]	8.62[-2]	7.97[-2]
4	49	8.98[-2]	8.44[-2]	7.85[-2]	6.97[-2]	6.61[-2]	6.35[-2]	5.87[-2]	5.44[-2]
5	49	3.42[-2]	3.16[-2]	2.92[-2]	2.57[-2]	2.41[-2]	2.31[-2]	2.13[-2]	1.97[-2]
1	50	5.04[-2]	5.11[-2]	4.88[-2]	4.31[-2]	3.94[-2]	3.65[-2]	3.19[-2]	2.82[-2]
2	50	1.02[-1]	9.53[-2]	8.89[-2]	7.92[-2]	7.51[-2]	7.21[-2]	6.65[-2]	6.14[-2]
3	50	1.04[-1]	9.84[-2]	9.17[-2]	8.17[-2]	7.78[-2]	7.51[-2]	6.97[-2]	6.45[-2]
4	50	7.29[-2]	6.97[-2]	6.52[-2]	5.89[-2]	5.68[-2]	5.52[-2]	5.16[-2]	4.78[-2]

Table 5.3.3b. (continued)

Levels		$T(K)$							
i	j	1000	3000	5000	10000	15000	20000	30000	40000
5	50	2.58[-2]	2.48[-2]	2.33[-2]	2.12[-2]	2.06[-2]	2.02[-2]	1.90[-2]	1.76[-2]
1	51	5.48[-2]	4.41[-2]	4.12[-2]	6.51[-2]	1.04[-1]	1.32[-1]	1.56[-1]	1.57[-1]
2	51	2.33[-2]	2.16[-2]	2.15[-2]	3.41[-2]	5.36[-2]	6.75[-2]	7.89[-2]	7.93[-2]
3	51	6.87[-3]	6.45[-3]	6.41[-3]	1.21[-2]	2.09[-2]	2.73[-2]	3.26[-2]	3.30[-2]
4	51	1.86[-3]	1.61[-3]	1.55[-3]	3.71[-3]	7.02[-3]	9.40[-3]	1.15[-2]	1.17[-2]
5	51	5.05[-4]	4.40[-4]	4.31[-4]	9.40[-4]	1.71[-3]	2.27[-3]	2.73[-3]	2.78[-3]
1	52	3.38[-2]	2.78[-2]	2.52[-2]	3.52[-2]	5.39[-2]	6.74[-2]	7.86[-2]	7.90[-2]
2	52	5.77[-2]	4.93[-2]	4.49[-2]	5.20[-2]	6.93[-2]	8.20[-2]	9.16[-2]	9.06[-2]
3	52	3.51[-2]	3.01[-2]	2.73[-2]	3.78[-2]	5.78[-2]	7.25[-2]	8.46[-2]	8.50[-2]
4	52	1.53[-2]	1.32[-2]	1.23[-2]	2.07[-2]	3.47[-2]	4.50[-2]	5.36[-2]	5.43[-2]
5	52	4.00[-3]	3.51[-3]	3.39[-3]	6.38[-3]	1.11[-2]	1.46[-2]	1.75[-2]	1.77[-2]
1	53	1.20[-2]	1.08[-2]	9.68[-3]	1.32[-2]	2.02[-2]	2.54[-2]	2.96[-2]	2.97[-2]
2	53	3.19[-2]	2.72[-2]	2.51[-2]	3.62[-2]	5.61[-2]	7.07[-2]	8.27[-2]	8.32[-2]
3	53	4.29[-2]	3.67[-2]	3.46[-2]	6.03[-2]	1.03[-1]	1.34[-1]	1.60[-1]	1.62[-1]
4	53	4.00[-2]	3.35[-2]	3.12[-2]	5.08[-2]	8.37[-2]	1.08[-1]	1.28[-1]	1.29[-1]
5	53	1.66[-2]	1.37[-2]	1.27[-2]	1.91[-2]	3.03[-2]	3.84[-2]	4.51[-2]	4.55[-2]
1	54	7.04[-1]	4.66[-1]	4.27[-1]	4.21[-1]	4.20[-1]	4.14[-1]	3.96[-1]	3.78[-1]
2	54	3.96[-1]	2.85[-1]	2.60[-1]	2.44[-1]	2.36[-1]	2.30[-1]	2.17[-1]	2.07[-1]
3	54	2.68[-1]	2.14[-1]	2.05[-1]	2.02[-1]	2.00[-1]	1.97[-1]	1.88[-1]	1.80[-1]
4	54	1.67[-1]	1.36[-1]	1.30[-1]	1.27[-1]	1.25[-1]	1.23[-1]	1.18[-1]	1.13[-1]
5	54	6.08[-2]	4.95[-2]	4.71[-2]	4.58[-2]	4.51[-2]	4.42[-2]	4.25[-2]	4.09[-2]
1	55	3.32[-1]	2.30[-1]	2.08[-1]	1.95[-1]	1.90[-1]	1.85[-1]	1.77[-1]	1.69[-1]
2	55	4.44[-1]	3.07[-1]	2.79[-1]	2.67[-1]	2.63[-1]	2.59[-1]	2.49[-1]	2.40[-1]
3	55	2.90[-1]	2.11[-1]	1.96[-1]	1.93[-1]	1.91[-1]	1.88[-1]	1.79[-1]	1.71[-1]
4	55	1.23[-1]	9.74[-2]	9.41[-2]	9.49[-2]	9.44[-2]	9.24[-2]	8.72[-2]	8.22[-2]
5	55	3.13[-2]	2.68[-2]	2.67[-2]	2.76[-2]	2.75[-2]	2.68[-2]	2.50[-2]	2.33[-2]
1	56	2.96[-1]	2.40[-1]	2.28[-1]	2.21[-1]	2.17[-1]	2.12[-1]	2.04[-1]	1.95[-1]
2	56	2.03[-1]	1.63[-1]	1.58[-1]	1.58[-1]	1.56[-1]	1.53[-1]	1.44[-1]	1.36[-1]
3	56	2.05[-1]	1.47[-1]	1.37[-1]	1.36[-1]	1.35[-1]	1.33[-1]	1.26[-1]	1.19[-1]
4	56	1.67[-1]	1.12[-1]	1.01[-1]	9.96[-2]	9.90[-2]	9.73[-2]	9.26[-2]	8.80[-2]
5	56	6.56[-2]	4.25[-2]	3.82[-2]	3.72[-2]	3.70[-2]	3.64[-2]	3.48[-2]	3.32[-2]
1	57	1.31[-1]	9.12[-2]	7.96[-2]	6.86[-2]	6.35[-2]	5.93[-2]	5.20[-2]	4.59[-2]
2	57	8.31[-2]	5.86[-2]	5.17[-2]	4.52[-2]	4.24[-2]	4.00[-2]	3.54[-2]	3.13[-2]
3	57	4.86[-2]	3.49[-2]	3.09[-2]	2.72[-2]	2.55[-2]	2.40[-2]	2.12[-2]	1.88[-2]
4	57	2.55[-2]	1.87[-2]	1.67[-2]	1.46[-2]	1.37[-2]	1.29[-2]	1.14[-2]	1.00[-2]
5	57	8.01[-3]	5.99[-3]	5.33[-3]	4.68[-3]	4.37[-3]	4.11[-3]	3.63[-3]	3.21[-3]
1	58	6.23[-2]	4.52[-2]	4.06[-2]	3.60[-2]	3.36[-2]	3.16[-2]	2.77[-2]	2.44[-2]
2	58	6.36[-2]	4.60[-2]	4.13[-2]	3.80[-2]	3.69[-2]	3.55[-2]	3.20[-2]	2.86[-2]
3	58	5.04[-2]	3.59[-2]	3.21[-2]	2.95[-2]	2.88[-2]	2.79[-2]	2.52[-2]	2.26[-2]
4	58	3.19[-2]	2.28[-2]	2.04[-2]	1.85[-2]	1.78[-2]	1.71[-2]	1.54[-2]	1.38[-2]
5	58	1.09[-2]	7.83[-3]	7.02[-3]	6.30[-3]	6.00[-3]	5.72[-3]	5.13[-3]	4.57[-3]
1	59	2.99[-2]	2.23[-2]	1.98[-2]	1.72[-2]	1.59[-2]	1.48[-2]	1.29[-2]	1.14[-2]
2	59	3.86[-2]	2.74[-2]	2.44[-2]	2.14[-2]	1.99[-2]	1.87[-2]	1.65[-2]	1.46[-2]
3	59	3.63[-2]	2.60[-2]	2.33[-2]	2.13[-2]	2.08[-2]	2.01[-2]	1.82[-2]	1.63[-2]
4	59	2.56[-2]	1.87[-2]	1.68[-2]	1.58[-2]	1.58[-2]	1.54[-2]	1.42[-2]	1.28[-2]
5	59	9.23[-3]	6.82[-3]	6.15[-3]	5.84[-3]	5.87[-3]	5.77[-3]	5.33[-3]	4.80[-3]
1	60	6.35[-1]	5.87[-1]	6.10[-1]	6.81[-1]	7.19[-1]	7.31[-1]	7.16[-1]	6.82[-1]
2	60	2.53[-1]	2.45[-1]	2.57[-1]	2.86[-1]	3.02[-1]	3.07[-1]	3.00[-1]	2.84[-1]
3	60	8.36[-2]	8.91[-2]	1.02[-1]	1.25[-1]	1.36[-1]	1.39[-1]	1.32[-1]	1.22[-1]
4	60	1.93[-2]	2.16[-2]	2.68[-2]	3.71[-2]	4.26[-2]	4.43[-2]	4.28[-2]	3.93[-2]

Table 5.3.3b. (continued)

Levels		$T(K)$							
i	j	1000	3000	5000	10000	15000	20000	30000	40000
5	60	4.61[-3]	5.42[-3]	7.08[-3]	9.89[-3]	1.13[-2]	1.17[-2]	1.13[-2]	1.04[-2]
1	61	3.29[-1]	3.13[-1]	3.37[-1]	3.77[-1]	3.93[-1]	3.95[-1]	3.80[-1]	3.58[-1]
2	61	2.50[-1]	2.52[-1]	2.85[-1]	3.46[-1]	3.74[-1]	3.81[-1]	3.69[-1]	3.46[-1]
3	61	1.97[-1]	2.04[-1]	2.26[-1]	2.59[-1]	2.73[-1]	2.76[-1]	2.69[-1]	2.55[-1]
4	61	7.04[-2]	7.20[-2]	7.86[-2]	9.24[-2]	9.92[-2]	1.00[-1]	9.60[-2]	8.88[-2]
5	61	1.29[-2]	1.61[-2]	2.02[-2]	2.62[-2]	2.83[-2]	2.84[-2]	2.64[-2]	2.38[-2]
1	62	1.33[-1]	1.33[-1]	1.52[-1]	1.83[-1]	1.96[-1]	1.99[-1]	1.90[-1]	1.77[-1]
2	62	2.26[-1]	2.38[-1]	2.64[-1]	3.06[-1]	3.25[-1]	3.30[-1]	3.20[-1]	3.03[-1]
3	62	1.68[-1]	1.73[-1]	1.98[-1]	2.41[-1]	2.59[-1]	2.62[-1]	2.50[-1]	2.31[-1]
4	62	1.36[-1]	1.36[-1]	1.46[-1]	1.63[-1]	1.71[-1]	1.73[-1]	1.68[-1]	1.60[-1]
5	62	5.08[-2]	5.12[-2]	5.56[-2]	6.20[-2]	6.38[-2]	6.33[-2]	5.94[-2]	5.48[-2]
1	63	4.79[-2]	5.24[-2]	6.43[-2]	8.31[-2]	9.14[-2]	9.33[-2]	8.89[-2]	8.15[-2]
2	63	1.46[-1]	1.60[-1]	1.81[-1]	2.08[-1]	2.16[-1]	2.16[-1]	2.05[-1]	1.90[-1]
3	63	1.73[-1]	1.86[-1]	2.09[-1]	2.41[-1]	2.52[-1]	2.53[-1]	2.41[-1]	2.25[-1]
4	63	1.32[-1]	1.33[-1]	1.48[-1]	1.72[-1]	1.81[-1]	1.81[-1]	1.71[-1]	1.58[-1]
5	63	6.48[-2]	7.00[-2]	7.71[-2]	8.46[-2]	8.67[-2]	8.66[-2]	8.36[-2]	7.94[-2]
1	64	1.64[-2]	1.86[-2]	2.36[-2]	3.24[-2]	3.67[-2]	3.79[-2]	3.63[-2]	3.32[-2]
2	64	5.78[-2]	6.45[-2]	7.51[-2]	8.94[-2]	9.38[-2]	9.34[-2]	8.71[-2]	7.95[-2]
3	64	1.33[-1]	1.38[-1]	1.51[-1]	1.66[-1]	1.70[-1]	1.69[-1]	1.61[-1]	1.50[-1]
4	64	1.13[-1]	1.20[-1]	1.33[-1]	1.49[-1]	1.54[-1]	1.55[-1]	1.48[-1]	1.40[-1]
5	64	3.40[-2]	3.49[-2]	4.03[-2]	4.96[-2]	5.33[-2]	5.38[-2]	5.11[-2]	4.71[-2]
1	65	6.42[-2]	5.52[-2]	5.37[-2]	5.82[-2]	6.22[-2]	6.31[-2]	5.97[-2]	5.44[-2]
2	65	6.04[-2]	4.57[-2]	4.16[-2]	4.18[-2]	4.36[-2]	4.37[-2]	4.10[-2]	3.73[-2]
3	65	3.93[-2]	2.77[-2]	2.43[-2]	2.35[-2]	2.42[-2]	2.42[-2]	2.26[-2]	2.06[-2]
4	65	2.07[-2]	1.41[-2]	1.21[-2]	1.15[-2]	1.18[-2]	1.18[-2]	1.10[-2]	1.00[-2]
5	65	6.35[-3]	4.31[-3]	3.70[-3]	3.47[-3]	3.56[-3]	3.55[-3]	3.32[-3]	3.02[-3]
1	66	5.28[-2]	3.90[-2]	3.54[-2]	3.61[-2]	3.80[-2]	3.84[-2]	3.62[-2]	3.30[-2]
2	66	4.96[-2]	3.74[-2]	3.36[-2]	3.29[-2]	3.38[-2]	3.37[-2]	3.15[-2]	2.86[-2]
3	66	3.90[-2]	2.99[-2]	2.68[-2]	2.54[-2]	2.55[-2]	2.50[-2]	2.30[-2]	2.07[-2]
4	66	2.59[-2]	2.03[-2]	1.84[-2]	1.73[-2]	1.71[-2]	1.66[-2]	1.51[-2]	1.36[-2]
5	66	9.29[-3]	7.40[-3]	6.75[-3]	6.37[-3]	6.26[-3]	6.06[-3]	5.50[-3]	4.92[-3]
1	67	3.68[-2]	2.39[-2]	2.03[-2]	1.92[-2]	1.98[-2]	1.99[-2]	1.87[-2]	1.70[-2]
2	67	4.09[-2]	3.10[-2]	2.80[-2]	2.70[-2]	2.73[-2]	2.69[-2]	2.49[-2]	2.25[-2]
3	67	3.61[-2]	2.84[-2]	2.58[-2]	2.46[-2]	2.46[-2]	2.41[-2]	2.21[-2]	1.99[-2]
4	67	2.40[-2]	1.93[-2]	1.76[-2]	1.69[-2]	1.69[-2]	1.66[-2]	1.52[-2]	1.37[-2]
5	67	8.35[-3]	6.81[-3]	6.24[-3]	6.01[-3]	6.05[-3]	5.95[-3]	5.48[-3]	4.95[-3]
1	68	4.52[-2]	3.67[-2]	3.51[-2]	3.33[-2]	3.20[-2]	3.04[-2]	2.70[-2]	2.40[-2]
2	68	3.85[-2]	2.86[-2]	2.53[-2]	2.18[-2]	2.02[-2]	1.89[-2]	1.65[-2]	1.46[-2]
3	68	1.15[-2]	9.37[-3]	8.60[-3]	7.84[-3]	7.52[-3]	7.18[-3]	6.41[-3]	5.71[-3]
4	68	2.63[-3]	2.60[-3]	2.55[-3]	2.53[-3]	2.54[-3]	2.48[-3]	2.27[-3]	2.04[-3]
5	68	8.54[-4]	8.11[-4]	7.69[-4]	7.36[-4]	7.30[-4]	7.08[-4]	6.42[-4]	5.74[-4]
1	69	2.23[-2]	1.86[-2]	1.77[-2]	1.67[-2]	1.61[-2]	1.54[-2]	1.37[-2]	1.22[-2]
2	69	5.46[-2]	3.88[-2]	3.27[-2]	2.67[-2]	2.42[-2]	2.24[-2]	1.95[-2]	1.72[-2]
3	69	2.36[-2]	1.81[-2]	1.62[-2]	1.45[-2]	1.38[-2]	1.31[-2]	1.17[-2]	1.04[-2]
4	69	1.27[-2]	9.88[-3]	8.99[-3]	8.12[-3]	7.74[-3]	7.37[-3]	6.59[-3]	5.88[-3]
5	69	5.49[-3]	4.05[-3]	3.55[-3]	3.04[-3]	2.83[-3]	2.66[-3]	2.34[-3]	2.08[-3]
1	70	9.12[-3]	7.84[-3]	7.27[-3]	6.77[-3]	6.60[-3]	6.35[-3]	5.73[-3]	5.11[-3]
2	70	2.53[-2]	1.92[-2]	1.71[-2]	1.52[-2]	1.45[-2]	1.38[-2]	1.23[-2]	1.10[-2]
3	70	3.10[-2]	2.29[-2]	2.04[-2]	1.83[-2]	1.74[-2]	1.65[-2]	1.48[-2]	1.31[-2]
4	70	3.71[-2]	2.59[-2]	2.18[-2]	1.81[-2]	1.65[-2]	1.54[-2]	1.35[-2]	1.19[-2]

Table 5.3.3b. (continued)

Levels		$T(K)$							
i	j	1000	3000	5000	10000	15000	20000	30000	40000
5	70	1.76[-2]	1.20[-2]	9.88[-3]	7.85[-3]	7.04[-3]	6.47[-3]	5.59[-3]	4.90[-3]
1	71	3.21	3.40	3.43	3.54	3.64	3.70	3.78	3.84
2	71	9.73[-1]	1.01	1.01	1.05	1.08	1.09	1.10	1.11
3	71	3.11[-1]	3.11[-1]	3.07[-1]	3.17[-1]	3.24[-1]	3.25[-1]	3.21[-1]	3.16[-1]
4	71	1.40[-1]	1.37[-1]	1.32[-1]	1.34[-1]	1.35[-1]	1.33[-1]	1.28[-1]	1.23[-1]
5	71	5.05[-2]	4.94[-2]	4.74[-2]	4.68[-2]	4.66[-2]	4.58[-2]	4.38[-2]	4.22[-2]
1	72	2.72[-1]	2.56[-1]	2.52[-1]	2.71[-1]	2.82[-1]	2.83[-1]	2.73[-1]	2.62[-1]
2	72	1.74	1.86	1.87	1.92	1.96	1.99	2.02	2.05
3	72	1.04	1.09	1.10	1.13	1.15	1.16	1.18	1.20
4	72	3.01[-1]	3.05[-1]	3.05[-1]	3.14[-1]	3.22[-1]	3.26[-1]	3.30[-1]	3.34[-1]
5	72	2.98[-2]	2.55[-2]	2.46[-2]	2.66[-2]	2.79[-2]	2.81[-2]	2.74[-2]	2.64[-2]
1	73	1.97[-1]	1.92[-1]	1.86[-1]	1.87[-1]	1.87[-1]	1.84[-1]	1.76[-1]	1.69[-1]
2	73	1.34[-1]	1.21[-1]	1.18[-1]	1.28[-1]	1.35[-1]	1.35[-1]	1.31[-1]	1.25[-1]
3	73	6.69[-1]	7.07[-1]	7.13[-1]	7.36[-1]	7.56[-1]	7.67[-1]	7.80[-1]	7.90[-1]
4	73	7.74[-1]	8.30[-1]	8.37[-1]	8.57[-1]	8.75[-1]	8.87[-1]	9.03[-1]	9.17[-1]
5	73	3.38[-1]	3.64[-1]	3.68[-1]	3.76[-1]	3.83[-1]	3.88[-1]	3.96[-1]	4.03[-1]
1	74	2.97[-1]	2.73[-1]	2.46[-1]	2.01[-1]	1.76[-1]	1.61[-1]	1.43[-1]	1.32[-1]
2	74	9.05[-2]	8.16[-2]	7.21[-2]	5.63[-2]	4.75[-2]	4.21[-2]	3.59[-2]	3.25[-2]
3	74	2.70[-2]	2.39[-2]	2.06[-2]	1.54[-2]	1.25[-2]	1.07[-2]	8.57[-3]	7.38[-3]
4	74	6.00[-3]	5.43[-3]	4.62[-3]	3.30[-3]	2.59[-3]	2.16[-3]	1.66[-3]	1.37[-3]
5	74	1.22[-3]	1.17[-3]	1.01[-3]	7.29[-4]	5.78[-4]	4.85[-4]	3.78[-4]	3.16[-4]
1	75	1.75[-1]	1.60[-1]	1.43[-1]	1.14[-1]	9.76[-2]	8.72[-2]	7.51[-2]	6.83[-2]
2	75	2.33[-1]	2.18[-1]	1.95[-1]	1.57[-1]	1.35[-1]	1.21[-1]	1.05[-1]	9.60[-2]
3	75	9.66[-2]	9.00[-2]	8.04[-2]	6.34[-2]	5.36[-2]	4.75[-2]	4.04[-2]	3.65[-2]
4	75	2.23[-2]	2.03[-2]	1.78[-2]	1.36[-2]	1.12[-2]	9.70[-3]	7.94[-3]	6.92[-3]
5	75	5.51[-3]	5.37[-3]	4.68[-3]	3.46[-3]	2.76[-3]	2.32[-3]	1.78[-3]	1.46[-3]
1	76	8.34[-2]	7.48[-2]	6.56[-2]	5.05[-2]	4.21[-2]	3.69[-2]	3.07[-2]	2.72[-2]
2	76	1.83[-1]	1.68[-1]	1.50[-1]	1.19[-1]	1.01[-1]	9.01[-2]	7.73[-2]	7.02[-2]
3	76	1.69[-1]	1.55[-1]	1.38[-1]	1.09[-1]	9.25[-2]	8.22[-2]	7.00[-2]	6.30[-2]
4	76	6.87[-2]	6.37[-2]	5.68[-2]	4.47[-2]	3.77[-2]	3.34[-2]	2.84[-2]	2.56[-2]
5	76	1.26[-2]	1.19[-2]	1.07[-2]	8.44[-3]	7.11[-3]	6.26[-3]	5.25[-3]	4.67[-3]
1	77	3.39[-2]	3.01[-2]	2.59[-2]	1.93[-2]	1.57[-2]	1.34[-2]	1.08[-2]	9.32[-3]
2	77	1.01[-1]	9.17[-2]	8.11[-2]	6.34[-2]	5.34[-2]	4.71[-2]	3.99[-2]	3.57[-2]
3	77	1.56[-1]	1.43[-1]	1.27[-1]	1.00[-1]	8.49[-2]	7.54[-2]	6.41[-2]	5.77[-2]
4	77	1.13[-1]	1.04[-1]	9.17[-2]	7.21[-2]	6.12[-2]	5.43[-2]	4.63[-2]	4.17[-2]
5	77	3.40[-2]	3.27[-2]	2.96[-2]	2.36[-2]	2.01[-2]	1.79[-2]	1.53[-2]	1.39[-2]
1	78	1.30[-2]	1.11[-2]	9.29[-3]	6.64[-3]	5.26[-3]	4.41[-3]	3.44[-3]	2.88[-3]
2	78	4.56[-2]	4.03[-2]	3.49[-2]	2.64[-2]	2.16[-2]	1.87[-2]	1.53[-2]	1.33[-2]
3	78	9.76[-2]	8.78[-2]	7.76[-2]	6.06[-2]	5.11[-2]	4.51[-2]	3.81[-2]	3.42[-2]
4	78	1.26[-1]	1.15[-1]	1.02[-1]	8.06[-2]	6.84[-2]	6.07[-2]	5.17[-2]	4.66[-2]
5	78	5.78[-2]	5.41[-2]	4.82[-2]	3.85[-2]	3.29[-2]	2.94[-2]	2.52[-2]	2.27[-2]
1	79	2.60[-1]	2.74[-1]	2.69[-1]	2.57[-1]	2.51[-1]	2.50[-1]	2.49[-1]	2.49[-1]
2	79	4.20[-2]	4.54[-2]	4.12[-2]	3.45[-2]	3.11[-2]	2.91[-2]	2.68[-2]	2.54[-2]
3	79	8.89[-3]	9.83[-3]	8.24[-3]	5.84[-3]	4.65[-3]	3.94[-3]	3.14[-3]	2.69[-3]
4	79	1.72[-3]	1.88[-3]	1.54[-3]	1.06[-3]	8.30[-4]	7.04[-4]	5.76[-4]	5.16[-4]
5	79	3.82[-4]	4.25[-4]	3.52[-4]	2.45[-4]	1.94[-4]	1.65[-4]	1.35[-4]	1.21[-4]
1	80	9.38[-2]	9.60[-2]	9.06[-2]	8.20[-2]	7.78[-2]	7.56[-2]	7.34[-2]	7.23[-2]
2	80	1.22[-1]	1.19[-1]	1.15[-1]	1.11[-1]	1.08[-1]	1.07[-1]	1.07[-1]	1.07[-1]
3	80	3.70[-2]	3.90[-2]	3.66[-2]	3.23[-2]	2.99[-2]	2.85[-2]	2.69[-2]	2.60[-2]
4	80	5.88[-3]	6.20[-3]	5.11[-3]	3.58[-3]	2.84[-3]	2.40[-3]	1.89[-3]	1.60[-3]

Table 5.3.3b. (continued)

Levels		$T(K)$							
i	j	1000	3000	5000	10000	15000	20000	30000	40000
5	80	1.68[-3]	1.86[-3]	1.55[-3]	1.11[-3]	9.06[-4]	7.92[-4]	6.65[-4]	5.90[-4]
1	81	3.87[-2]	4.02[-2]	3.68[-2]	3.12[-2]	2.84[-2]	2.67[-2]	2.48[-2]	2.38[-2]
2	81	1.07[-1]	1.10[-1]	1.06[-1]	9.81[-2]	9.41[-2]	9.20[-2]	9.00[-2]	8.90[-2]
3	81	9.53[-2]	9.68[-2]	9.32[-2]	8.62[-2]	8.26[-2]	8.08[-2]	7.93[-2]	7.86[-2]
4	81	2.50[-2]	2.66[-2]	2.47[-2]	2.15[-2]	1.98[-2]	1.88[-2]	1.78[-2]	1.73[-2]
5	81	4.59[-3]	5.06[-3]	4.28[-3]	3.06[-3]	2.43[-3]	2.05[-3]	1.60[-3]	1.34[-3]
1	82	1.40[-2]	1.51[-2]	1.33[-2]	1.06[-2]	9.27[-3]	8.48[-3]	7.59[-3]	7.09[-3]
2	82	5.51[-2]	5.78[-2]	5.42[-2]	4.78[-2]	4.46[-2]	4.27[-2]	4.08[-2]	3.97[-2]
3	82	9.06[-2]	9.28[-2]	8.93[-2]	8.21[-2]	7.84[-2]	7.64[-2]	7.47[-2]	7.39[-2]
4	82	6.65[-2]	6.79[-2]	6.50[-2]	5.93[-2]	5.64[-2]	5.48[-2]	5.33[-2]	5.25[-2]
5	82	1.56[-2]	1.69[-2]	1.61[-2]	1.45[-2]	1.36[-2]	1.30[-2]	1.24[-2]	1.21[-2]
1	83	4.52[-3]	4.98[-3]	4.25[-3]	3.15[-3]	2.62[-3]	2.33[-3]	2.01[-3]	1.84[-3]
2	83	2.05[-2]	2.22[-2]	1.99[-2]	1.62[-2]	1.44[-2]	1.33[-2]	1.21[-2]	1.14[-2]
3	83	5.48[-2]	5.74[-2]	5.41[-2]	4.81[-2]	4.48[-2]	4.30[-2]	4.09[-2]	3.98[-2]
4	83	8.16[-2]	8.35[-2]	8.08[-2]	7.48[-2]	7.15[-2]	6.97[-2]	6.80[-2]	6.70[-2]
5	83	4.09[-2]	4.19[-2]	4.10[-2]	3.87[-2]	3.74[-2]	3.67[-2]	3.61[-2]	3.58[-2]
1	84	1.20	1.30	1.42	1.68	1.88	2.03	2.29	2.49
2	84	5.80[-2]	6.44[-2]	6.14[-2]	5.32[-2]	4.84[-2]	4.56[-2]	4.30[-2]	4.20[-2]
3	84	2.07[-2]	2.30[-2]	2.13[-2]	1.78[-2]	1.60[-2]	1.50[-2]	1.41[-2]	1.38[-2]
4	84	7.43[-3]	8.28[-3]	7.76[-3]	6.94[-3]	6.66[-3]	6.62[-3]	6.79[-3]	7.06[-3]
5	84	2.33[-3]	2.68[-3]	2.52[-3]	2.27[-3]	2.21[-3]	2.23[-3]	2.35[-3]	2.48[-3]
1	85	3.76[-1]	3.94[-1]	3.92[-1]	3.84[-1]	3.83[-1]	3.86[-1]	4.01[-1]	4.17[-1]
2	85	1.33	1.38	1.41	1.48	1.54	1.59	1.71	1.82
3	85	6.04[-2]	6.48[-2]	6.22[-2]	5.55[-2]	5.15[-2]	4.91[-2]	4.70[-2]	4.62[-2]
4	85	1.57[-2]	1.78[-2]	1.65[-2]	1.37[-2]	1.21[-2]	1.11[-2]	9.96[-3]	9.37[-3]
5	85	3.76[-3]	4.22[-3]	3.80[-3]	3.09[-3]	2.74[-3]	2.54[-3]	2.34[-3]	2.24[-3]
1	86	6.27[-2]	6.69[-2]	6.38[-2]	5.74[-2]	5.41[-2]	5.24[-2]	5.14[-2]	5.15[-2]
2	86	5.45[-1]	5.67[-1]	5.65[-1]	5.51[-1]	5.45[-1]	5.47[-1]	5.62[-1]	5.81[-1]
3	86	1.06	1.10	1.10	1.09	1.09	1.11	1.15	1.20
4	86	3.70[-2]	3.91[-2]	3.73[-2]	3.31[-2]	3.07[-2]	2.93[-2]	2.81[-2]	2.78[-2]
5	86	9.27[-3]	1.08[-2]	1.00[-2]	8.30[-3]	7.21[-3]	6.49[-3]	5.60[-3]	5.07[-3]
1	87	1.56[-2]	1.73[-2]	1.60[-2]	1.36[-2]	1.24[-2]	1.17[-2]	1.11[-2]	1.08[-2]
2	87	8.98[-2]	9.44[-2]	9.21[-2]	8.59[-2]	8.24[-2]	8.07[-2]	8.01[-2]	8.10[-2]
3	87	5.20[-1]	5.37[-1]	5.35[-1]	5.23[-1]	5.17[-1]	5.19[-1]	5.32[-1]	5.50[-1]
4	87	6.48[-1]	6.72[-1]	6.72[-1]	6.58[-1]	6.54[-1]	6.58[-1]	6.79[-1]	7.06[-1]
5	87	1.95[-2]	2.03[-2]	1.97[-2]	1.80[-2]	1.70[-2]	1.64[-2]	1.60[-2]	1.60[-2]
1	88	6.88[-3]	7.73[-3]	7.17[-3]	6.30[-3]	5.99[-3]	5.93[-3]	6.07[-3]	6.30[-3]
2	88	1.55[-2]	1.70[-2]	1.54[-2]	1.27[-2]	1.12[-2]	1.03[-2]	9.24[-3]	8.69[-3]
3	88	8.50[-2]	8.94[-2]	8.76[-2]	8.24[-2]	7.95[-2]	7.82[-2]	7.80[-2]	7.90[-2]
4	88	3.97[-1]	4.09[-1]	4.08[-1]	3.97[-1]	3.93[-1]	3.94[-1]	4.02[-1]	4.15[-1]
5	88	3.75[-1]	3.85[-1]	3.85[-1]	3.77[-1]	3.74[-1]	3.75[-1]	3.85[-1]	3.98[-1]
1	89	3.70[-2]	4.24[-2]	3.98[-2]	3.29[-2]	2.88[-2]	2.64[-2]	2.36[-2]	2.21[-2]
2	89	3.33[-2]	3.78[-2]	3.55[-2]	2.94[-2]	2.59[-2]	2.39[-2]	2.16[-2]	2.03[-2]
3	89	2.59[-2]	2.91[-2]	2.73[-2]	2.25[-2]	1.98[-2]	1.82[-2]	1.65[-2]	1.55[-2]
4	89	1.56[-2]	1.77[-2]	1.65[-2]	1.37[-2]	1.20[-2]	1.10[-2]	9.96[-3]	9.34[-3]
5	89	5.44[-3]	6.14[-3]	5.73[-3]	4.70[-3]	4.12[-3]	3.78[-3]	3.40[-3]	3.18[-3]
1	90	1.63[-1]	1.71[-1]	1.55[-1]	1.26[-1]	1.10[-1]	1.01[-1]	9.21[-2]	8.81[-2]
2	90	1.10[-1]	1.08[-1]	9.86[-2]	8.17[-2]	7.28[-2]	6.78[-2]	6.25[-2]	6.00[-2]
3	90	6.67[-2]	6.63[-2]	6.06[-2]	5.05[-2]	4.51[-2]	4.21[-2]	3.88[-2]	3.71[-2]
4	90	2.38[-2]	2.44[-2]	2.24[-2]	1.86[-2]	1.65[-2]	1.53[-2]	1.39[-2]	1.32[-2]

Table 5.3.3b. (continued)

Levels		$T(K)$							
i	j	1000	3000	5000	10000	15000	20000	30000	40000
5	90	5.40[-3]	5.56[-3]	4.95[-3]	3.87[-3]	3.27[-3]	2.91[-3]	2.50[-3]	2.28[-3]
1	91	1.23[-1]	1.22[-1]	1.11[-1]	9.06[-2]	8.00[-2]	7.39[-2]	6.75[-2]	6.42[-2]
2	91	8.19[-2]	8.35[-2]	7.51[-2]	5.98[-2]	5.19[-2]	4.74[-2]	4.29[-2]	4.07[-2]
3	91	6.36[-2]	6.43[-2]	5.72[-2]	4.49[-2]	3.85[-2]	3.49[-2]	3.10[-2]	2.92[-2]
4	91	4.39[-2]	4.46[-2]	4.14[-2]	3.50[-2]	3.15[-2]	2.96[-2]	2.75[-2]	2.64[-2]
5	91	2.03[-2]	2.04[-2]	1.92[-2]	1.67[-2]	1.54[-2]	1.47[-2]	1.40[-2]	1.37[-2]
1	92	6.38[-2]	6.36[-2]	5.86[-2]	4.94[-2]	4.45[-2]	4.16[-2]	3.85[-2]	3.69[-2]
2	92	6.47[-2]	6.48[-2]	5.77[-2]	4.54[-2]	3.91[-2]	3.54[-2]	3.16[-2]	2.98[-2]
3	92	6.19[-2]	6.24[-2]	5.70[-2]	4.72[-2]	4.20[-2]	3.91[-2]	3.61[-2]	3.47[-2]
4	92	4.63[-2]	4.66[-2]	4.24[-2]	3.49[-2]	3.10[-2]	2.89[-2]	2.67[-2]	2.58[-2]
5	92	1.22[-2]	1.23[-2]	1.08[-2]	8.16[-3]	6.79[-3]	5.97[-3]	5.08[-3]	4.59[-3]
1	93	2.90[-2]	2.85[-2]	2.57[-2]	2.10[-2]	1.85[-2]	1.71[-2]	1.55[-2]	1.46[-2]
2	93	4.95[-2]	4.91[-2]	4.48[-2]	3.73[-2]	3.33[-2]	3.11[-2]	2.87[-2]	2.74[-2]
3	93	5.09[-2]	5.09[-2]	4.61[-2]	3.76[-2]	3.33[-2]	3.09[-2]	2.85[-2]	2.74[-2]
4	93	1.98[-2]	2.07[-2]	1.83[-2]	1.39[-2]	1.16[-2]	1.02[-2]	8.63[-3]	7.82[-3]
5	93	1.37[-2]	1.38[-2]	1.23[-2]	9.70[-3]	8.41[-3]	7.71[-3]	7.05[-3]	6.80[-3]
1	94	4.71[-3]	5.00[-3]	4.52[-3]	3.60[-3]	3.08[-3]	2.75[-3]	2.39[-3]	2.18[-3]
2	94	2.09[-2]	2.07[-2]	1.93[-2]	1.68[-2]	1.55[-2]	1.48[-2]	1.41[-2]	1.37[-2]
3	94	1.19[-2]	1.21[-2]	1.07[-2]	8.08[-3]	6.73[-3]	5.93[-3]	5.05[-3]	4.58[-3]
4	94	1.25[-2]	1.30[-2]	1.17[-2]	9.35[-3]	8.15[-3]	7.49[-3]	6.87[-3]	6.64[-3]
5	94	1.30[-3]	1.52[-3]	1.36[-3]	9.94[-4]	7.90[-4]	6.65[-4]	5.19[-4]	4.36[-4]