ELSEVIER

Coordination Chemistry Reviews
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COORDINATION CHEMISTRY REVIEWS

Erratum

Erratum to "NMR of paramagnetic substances" [Coordination Chemistry Reviews 150 (1996)]

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The publisher regrets that this volume was published with the following errors:

Page x, line 28: "Chapter 7 and Chapter 9, in which" should read "Chapter 7, and Chapter 9 in which"
Page x, line 43: "for 10^{-1}m" should read "for 10^{-10}m."
Page 70, line 13: "of the manifold" should read "of the *J* manifold"
Page 80, line 15: "with τ_c[$\exp(-t/\tau_c)\rightarrow 1$], we" should read "with τ_c, $\exp(-t/\tau_c)\rightarrow 1$, and we"
Page 84, Table 3.1, legend, line 2: "metal ions suitable" should read "metal ions more suitable"
Page 84, Table 3.1, line 25: "Ru^{3+} d^5 5/2" should read "Ru^{3+} d^5 1/2"
Page 93, line 5: "non-dispesive" should read "non-dispersive"
Page 94, Eq. (3.20): "$-2/3\rho_{2pz}$" should read "$-2/5\rho_{2pz}$"
Page 102, Table 3.3: "$\omega_s\tau_c > 1 > \omega_I\tau_s$" should read "$\omega_s\tau_c > 1 > \omega_I\tau_c$"
Page 134, Table 5.1: "Coefficient" should read "Coefficients"
Page 159, Fig. 5.18, line 1: "Experimental and calculated" should read "Calculated"
Page 160, Ref. [37]: "J.H. Kagi" should read "J.H.R. Kägi"
Page 175, Fig. 6.4, line 1: "site of cobalt(II)-substituted Cu_2Zn_2" should read "site of Cu_2Zn_2"
Page 175, Fig. 6.4, line 2: "assignment reported" should read "assignment for the Cu_2Co_2 derivative reported"
Page 177, line 4: "respect to $\rho I[1-\exp(-x)\,(1-x)=x]$, we" should read "respect to ρI, $1-\exp(-x)\simeq 1-(1x)=x$, and we"
Page 177, Fig. 6.5, line 3: "the initial (dashed line)" should read "the initial slope (dashed line)"
Page 180, Fig. 6.7, line 1: "truncated steady" should read "truncated or steady"
Page 183, Ref. [9]: "1992" should read "1993"
Page 206, Fig. 7.15, line 1: "$1/2J$" should read "$1/2J_{IJ}$"
Page 206, Fig. 7.15, line 2: "J" should read "J_{IJ}"

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Table 5.1
Coefficient relating the hyperfine coupling of an S_1 or S_2 spin system in a monomer to that in a coupled system, for each S_1 spin level [4]

S_1	S_2 = $\frac{1}{2}$			S_2 = 1			S_2 = $\frac{3}{2}$			S_2 = 2			S_2 = $\frac{5}{2}$			S_2 = 3			S_2 = $\frac{7}{2}$		
	S	C_1	C_2	S	C_1	C_2	S	C_1	C_2	S	C_1	C_2	S	C_1	C_2	S	C_1	C_2	S	C_1	C_2
$\frac{1}{2}$	1	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{2}$	$\frac{1}{3}$	$\frac{2}{3}$	2	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{5}{2}$	$\frac{1}{5}$	$\frac{4}{5}$	3	$\frac{1}{6}$	$\frac{5}{6}$	$\frac{7}{2}$	$\frac{1}{7}$	$\frac{6}{7}$	4	$\frac{1}{8}$	$\frac{7}{8}$
	0	—	—	$\frac{1}{2}$	$-\frac{1}{3}$	$\frac{4}{3}$	1	$-\frac{1}{4}$	$\frac{5}{4}$	$\frac{3}{2}$	$-\frac{1}{5}$	$\frac{6}{5}$	2	$-\frac{1}{6}$	$\frac{7}{6}$	$\frac{5}{2}$	$-\frac{1}{7}$	$\frac{8}{7}$	3	$-\frac{1}{8}$	$\frac{9}{8}$
1				2	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{5}{2}$	$\frac{2}{5}$	$\frac{3}{5}$	3	$\frac{1}{3}$	$\frac{2}{3}$	$\frac{7}{2}$	$\frac{2}{7}$	$\frac{5}{7}$	4	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{9}{2}$	$\frac{2}{9}$	$\frac{7}{9}$
				1	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{2}$	$\frac{4}{15}$	$\frac{11}{15}$	2	$\frac{1}{6}$	$\frac{5}{6}$	$\frac{5}{2}$	$\frac{4}{35}$	$\frac{31}{35}$	3	$\frac{1}{12}$	$\frac{11}{12}$	$\frac{7}{3}$	$\frac{4}{63}$	$\frac{59}{63}$
				0	—	—	$\frac{1}{2}$	$-\frac{2}{3}$	$\frac{5}{3}$	1	$-\frac{1}{2}$	$\frac{3}{2}$	$\frac{3}{2}$	$-\frac{2}{5}$	$\frac{7}{5}$	2	$-\frac{1}{3}$	$\frac{4}{3}$	$\frac{5}{2}$	$-\frac{2}{7}$	$\frac{9}{7}$
$\frac{3}{2}$							3	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{7}{2}$	$\frac{3}{7}$	$\frac{4}{7}$	4	$\frac{3}{8}$	$\frac{5}{8}$	$\frac{9}{2}$	$\frac{1}{3}$	$\frac{2}{3}$	5	$\frac{3}{10}$	$\frac{7}{10}$
							2	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{5}{2}$	$\frac{13}{35}$	$\frac{22}{35}$	3	$\frac{7}{24}$	$\frac{17}{24}$	$\frac{7}{2}$	$\frac{5}{21}$	$\frac{16}{21}$	4	$\frac{1}{5}$	$\frac{4}{5}$
							1	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{2}$	$\frac{1}{5}$	$\frac{4}{5}$	2	$\frac{1}{12}$	$\frac{11}{12}$	$\frac{5}{2}$	$\frac{1}{35}$	$\frac{34}{35}$	3	0	1
							0	—	—	$\frac{1}{2}$	−1	2	1	$-\frac{3}{4}$	$\frac{7}{4}$	$\frac{3}{2}$	$-\frac{3}{5}$	$\frac{8}{5}$	2	$-\frac{1}{2}$	$\frac{3}{2}$
2										4	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{9}{2}$	$\frac{4}{9}$	$\frac{5}{9}$	5	$\frac{2}{5}$	$\frac{3}{5}$	$\frac{11}{2}$	$\frac{4}{11}$	$\frac{7}{11}$
										3	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{7}{2}$	$\frac{26}{63}$	$\frac{37}{63}$	4	$\frac{7}{20}$	$\frac{13}{20}$	$\frac{9}{2}$	$\frac{10}{33}$	$\frac{23}{33}$
										2	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{5}{2}$	$\frac{12}{35}$	$\frac{23}{35}$	3	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{7}{2}$	$\frac{4}{21}$	$\frac{17}{21}$
										1	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{2}$	$\frac{2}{15}$	$\frac{13}{15}$	2	0	1	$\frac{5}{2}$	$-\frac{2}{35}$	$\frac{37}{35}$
										0	—	—	$\frac{1}{2}$	$-\frac{4}{3}$	$\frac{7}{3}$	1	−1	2	$\frac{3}{2}$	$-\frac{4}{5}$	$\frac{9}{5}$

$\frac{5}{2}$	5	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{11}{2}$	$\frac{5}{11}$	$\frac{6}{11}$	6	$\frac{5}{12}$	$\frac{7}{12}$
	4	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{9}{2}$	$\frac{43}{99}$	$\frac{56}{99}$	5	$\frac{23}{60}$	$\frac{37}{60}$
	3	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{7}{2}$	$\frac{25}{63}$	$\frac{38}{63}$	4	$\frac{13}{40}$	$\frac{27}{40}$
	2	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{5}{2}$	$\frac{11}{35}$	$\frac{24}{35}$	3	$\frac{5}{24}$	$\frac{19}{24}$
	1	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{2}$	$\frac{1}{15}$	$\frac{14}{15}$	2	$-\frac{1}{12}$	$\frac{13}{12}$
	0	—	—	$\frac{1}{2}$	$-\frac{5}{3}$	$\frac{8}{3}$	1	$-\frac{5}{4}$	$\frac{9}{4}$
3				6	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{13}{2}$	$\frac{6}{13}$	$\frac{7}{13}$
				5	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{11}{2}$	$\frac{64}{143}$	$\frac{79}{143}$
				4	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{9}{2}$	$\frac{14}{33}$	$\frac{19}{33}$
				3	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{7}{2}$	$\frac{8}{21}$	$\frac{13}{21}$
				2	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{5}{2}$	$\frac{2}{7}$	$\frac{5}{7}$
				1	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{2}$	0	1
				0	—	—	$\frac{1}{2}$	−2	3
$\frac{7}{2}$							7	$\frac{1}{2}$	$\frac{1}{2}$
							6	$\frac{1}{2}$	$\frac{1}{2}$
							5	$\frac{1}{2}$	$\frac{1}{2}$
							4	$\frac{1}{2}$	$\frac{1}{2}$
							3	$\frac{1}{2}$	$\frac{1}{2}$
							2	$\frac{1}{2}$	$\frac{1}{2}$
							1	$\frac{1}{2}$	$\frac{1}{2}$
							0	—	—

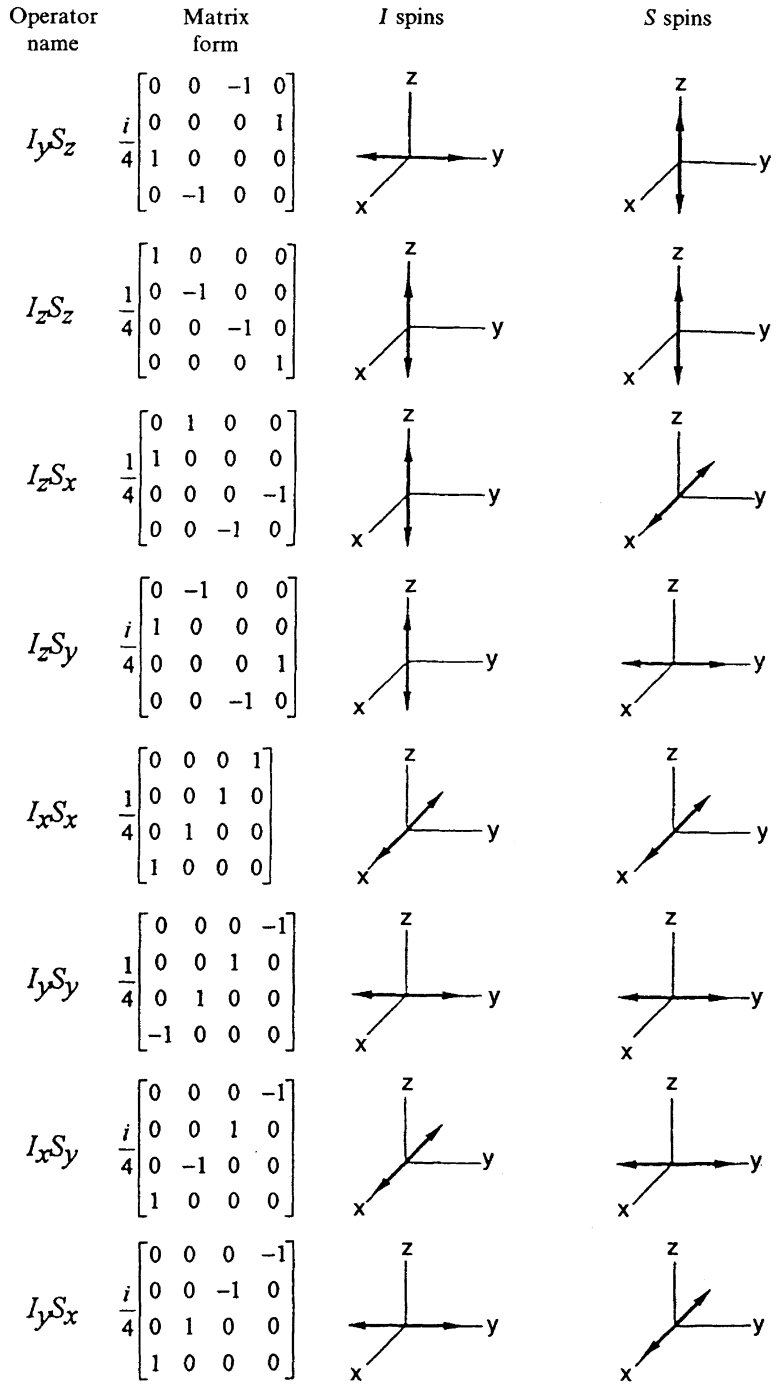


Fig. V.1. Product operators for a two-spin system. The density matrix form is shown along with the vector representation (from Ref. [5], p, 8).

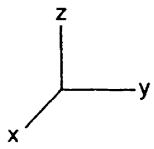
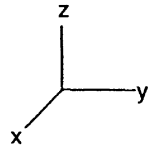
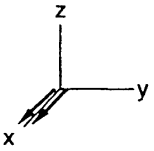
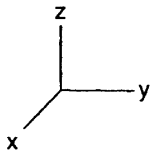
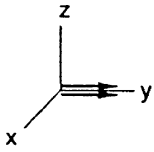
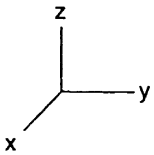
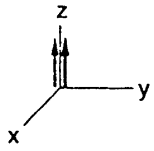
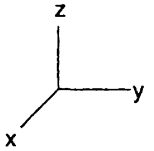
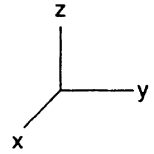
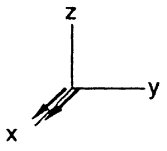
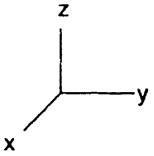
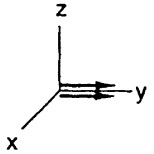
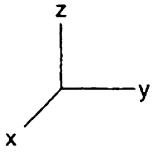
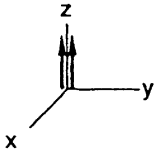
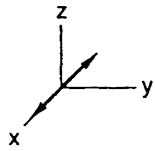
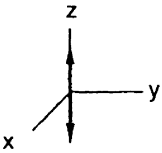
Operator name	Matrix form	*I* spins	*S* spins
1	$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}$		
I_x	$\frac{1}{2}\begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}$		
I_y	$\frac{i}{2}\begin{bmatrix} 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & -1 \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}$		
I_z	$\frac{1}{2}\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & -1 & 0 \\ 0 & 0 & 0 & -1 \end{bmatrix}$		
S_x	$\frac{1}{2}\begin{bmatrix} 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{bmatrix}$		
Sy	$\frac{i}{2}\begin{bmatrix} 0 & -1 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 \\ 0 & 0 & 1 & 0 \end{bmatrix}$		
S_z	$\frac{1}{2}\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & -1 \end{bmatrix}$		
I_xS_z	$\frac{1}{4}\begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & -1 \\ 1 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 \end{bmatrix}$		

Fig. V.1. (*continued*).

Page 213, Fig. 7.20, line 2: "$(Ln = Pr^{3+})$" should read "$(Ln = Dy^{3+})$"
Page 225, Eq. (8.3): "3/4" should read "3/5"
Page 236, Fig. 8.12, line 2: "and 77 K-SSB denotes" should read "and 77 K. SSB denotes"
Page 240, Section 8.4.3.1, line 6: "B_0" should read "$\boldsymbol{B}_0$"
Page 240, Section 8.4.3.1, line 11: "for all the initial values" shoud read "for all values"
Page 252, last line: "10^{-8s}" should read "10^{-8}][s"
Page 256, Fig. 9.7, line 1: "spectrum *a*" should read "spectrum (a)"
Page 256, Fig. 9.7, line 2: "spectrum *b*" should read "spectrum (b)"
Page 256, Fig. 9.7, line 2: "signals in *b*" should read "signals in (b)"
Page 256, line 2: "negative for macromolecules" should read "negative (for macromolecules),"
Page 256, line 2: "off resonance" should read "off-resonance"
Page 286, Eq. (V13): "$= \mathbf{R}^{\dagger}_{y}\,\boldsymbol{\sigma}\mathbf{R}_{y}(\alpha)$" should read "$= R^{\dagger}_{y}(\alpha)\,\boldsymbol{\sigma}\mathbf{R}_{y}(\alpha)$"
Page 289, final equation: "]·dt" should read "]dt"
Page 291, Appendix VI: "Nuclear Bohr Magneton μ_B" should read "Nuclear Bohr Magneton μ_N"