

$\text{Sr}(\text{OH})_2(\text{H}_2\text{O})_8$ Structure:

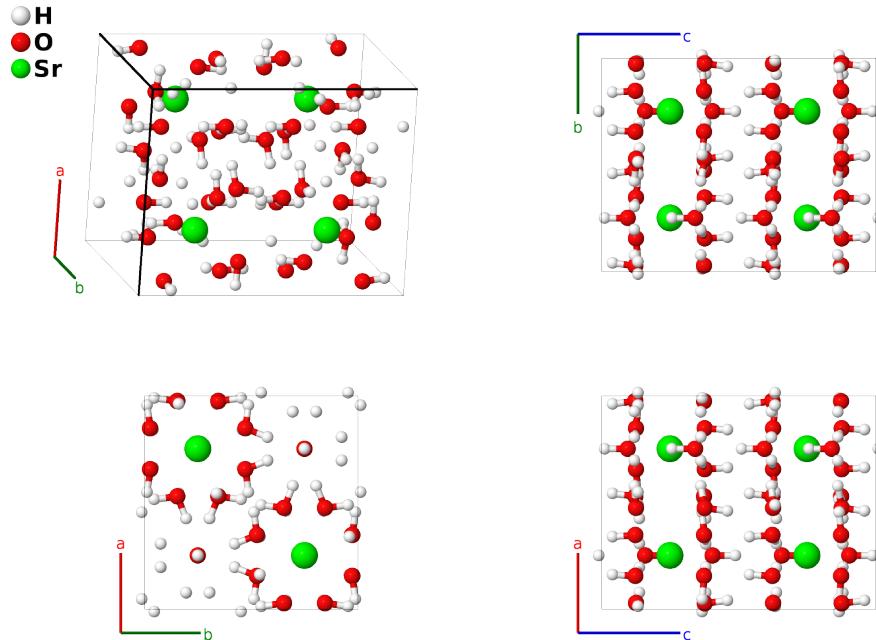
A18B10C_tP116_130_2c4g_2c2g_a-001

This structure originally had the label A18B10C_tP116_130_2c4g_2c2g_a. Calls to that address will be redirected here.

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<https://aflow.org/p/JDN7>

https://aflow.org/p/A18B10C_tP116_130_2c4g_2c2g_a-001



Prototype $\text{H}_{18}\text{O}_{10}\text{Sr}$

AFLOW prototype label A18B10C_tP116_130_2c4g_2c2g_a-001

ICSD 170827

Pearson symbol tP116

Space group number 130

Space group symbol $P4/ncc$

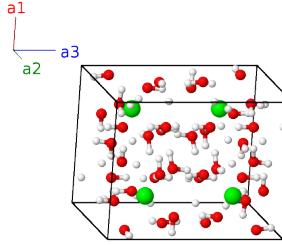
AFLOW prototype command

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--params=a,c/a,z2,z3,z4,z5,x6,y6,z6,x7,y7,z7,x8,y8,z8,x9,y9,z9,x10,y10,z10,x11,
y11,z11
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- This determination of the crystal structure of $\text{Sr}(\text{OH})_2(\text{H}_2\text{O})_8$ improves upon the the structure found by (Natta, 1928), which was given the *Strukturbericht* designation *E*6₁ by (Hermann, 1937). The new structure quadruples the size of the unit cell, locates the hydrogen atoms, and changes the space group.
- We use the data taken by (Ricci, 2005) at 20K.

Simple Tetragonal primitive vectors

$$\begin{aligned}\mathbf{a}_1 &= a\hat{\mathbf{x}} \\ \mathbf{a}_2 &= a\hat{\mathbf{y}} \\ \mathbf{a}_3 &= c\hat{\mathbf{z}}\end{aligned}$$



Basis vectors

	Lattice coordinates	=	Cartesian coordinates	Wyckoff position	Atom type
\mathbf{B}_1	$\frac{3}{4}\mathbf{a}_1 + \frac{1}{4}\mathbf{a}_2 + \frac{1}{4}\mathbf{a}_3$	=	$\frac{3}{4}a\hat{\mathbf{x}} + \frac{1}{4}a\hat{\mathbf{y}} + \frac{1}{4}c\hat{\mathbf{z}}$	(4a)	Sr I
\mathbf{B}_2	$\frac{1}{4}\mathbf{a}_1 + \frac{3}{4}\mathbf{a}_2 + \frac{1}{4}\mathbf{a}_3$	=	$\frac{1}{4}a\hat{\mathbf{x}} + \frac{3}{4}a\hat{\mathbf{y}} + \frac{1}{4}c\hat{\mathbf{z}}$	(4a)	Sr I
\mathbf{B}_3	$\frac{1}{4}\mathbf{a}_1 + \frac{3}{4}\mathbf{a}_2 + \frac{3}{4}\mathbf{a}_3$	=	$\frac{1}{4}a\hat{\mathbf{x}} + \frac{3}{4}a\hat{\mathbf{y}} + \frac{3}{4}c\hat{\mathbf{z}}$	(4a)	Sr I
\mathbf{B}_4	$\frac{3}{4}\mathbf{a}_1 + \frac{1}{4}\mathbf{a}_2 + \frac{3}{4}\mathbf{a}_3$	=	$\frac{3}{4}a\hat{\mathbf{x}} + \frac{1}{4}a\hat{\mathbf{y}} + \frac{3}{4}c\hat{\mathbf{z}}$	(4a)	Sr I
\mathbf{B}_5	$\frac{1}{4}\mathbf{a}_1 + \frac{1}{4}\mathbf{a}_2 + z_2\mathbf{a}_3$	=	$\frac{1}{4}a\hat{\mathbf{x}} + \frac{1}{4}a\hat{\mathbf{y}} + cz_2\hat{\mathbf{z}}$	(4c)	H I
\mathbf{B}_6	$\frac{3}{4}\mathbf{a}_1 + \frac{3}{4}\mathbf{a}_2 - (z_2 - \frac{1}{2})\mathbf{a}_3$	=	$\frac{3}{4}a\hat{\mathbf{x}} + \frac{3}{4}a\hat{\mathbf{y}} - c(z_2 - \frac{1}{2})\hat{\mathbf{z}}$	(4c)	H I
\mathbf{B}_7	$\frac{3}{4}\mathbf{a}_1 + \frac{3}{4}\mathbf{a}_2 - z_2\mathbf{a}_3$	=	$\frac{3}{4}a\hat{\mathbf{x}} + \frac{3}{4}a\hat{\mathbf{y}} - cz_2\hat{\mathbf{z}}$	(4c)	H I
\mathbf{B}_8	$\frac{1}{4}\mathbf{a}_1 + \frac{1}{4}\mathbf{a}_2 + (z_2 + \frac{1}{2})\mathbf{a}_3$	=	$\frac{1}{4}a\hat{\mathbf{x}} + \frac{1}{4}a\hat{\mathbf{y}} + c(z_2 + \frac{1}{2})\hat{\mathbf{z}}$	(4c)	H I
\mathbf{B}_9	$\frac{1}{4}\mathbf{a}_1 + \frac{1}{4}\mathbf{a}_2 + z_3\mathbf{a}_3$	=	$\frac{1}{4}a\hat{\mathbf{x}} + \frac{1}{4}a\hat{\mathbf{y}} + cz_3\hat{\mathbf{z}}$	(4c)	H II
\mathbf{B}_{10}	$\frac{3}{4}\mathbf{a}_1 + \frac{3}{4}\mathbf{a}_2 - (z_3 - \frac{1}{2})\mathbf{a}_3$	=	$\frac{3}{4}a\hat{\mathbf{x}} + \frac{3}{4}a\hat{\mathbf{y}} - c(z_3 - \frac{1}{2})\hat{\mathbf{z}}$	(4c)	H II
\mathbf{B}_{11}	$\frac{3}{4}\mathbf{a}_1 + \frac{3}{4}\mathbf{a}_2 - z_3\mathbf{a}_3$	=	$\frac{3}{4}a\hat{\mathbf{x}} + \frac{3}{4}a\hat{\mathbf{y}} - cz_3\hat{\mathbf{z}}$	(4c)	H II
\mathbf{B}_{12}	$\frac{1}{4}\mathbf{a}_1 + \frac{1}{4}\mathbf{a}_2 + (z_3 + \frac{1}{2})\mathbf{a}_3$	=	$\frac{1}{4}a\hat{\mathbf{x}} + \frac{1}{4}a\hat{\mathbf{y}} + c(z_3 + \frac{1}{2})\hat{\mathbf{z}}$	(4c)	H II
\mathbf{B}_{13}	$\frac{1}{4}\mathbf{a}_1 + \frac{1}{4}\mathbf{a}_2 + z_4\mathbf{a}_3$	=	$\frac{1}{4}a\hat{\mathbf{x}} + \frac{1}{4}a\hat{\mathbf{y}} + cz_4\hat{\mathbf{z}}$	(4c)	O I
\mathbf{B}_{14}	$\frac{3}{4}\mathbf{a}_1 + \frac{3}{4}\mathbf{a}_2 - (z_4 - \frac{1}{2})\mathbf{a}_3$	=	$\frac{3}{4}a\hat{\mathbf{x}} + \frac{3}{4}a\hat{\mathbf{y}} - c(z_4 - \frac{1}{2})\hat{\mathbf{z}}$	(4c)	O I
\mathbf{B}_{15}	$\frac{3}{4}\mathbf{a}_1 + \frac{3}{4}\mathbf{a}_2 - z_4\mathbf{a}_3$	=	$\frac{3}{4}a\hat{\mathbf{x}} + \frac{3}{4}a\hat{\mathbf{y}} - cz_4\hat{\mathbf{z}}$	(4c)	O I
\mathbf{B}_{16}	$\frac{1}{4}\mathbf{a}_1 + \frac{1}{4}\mathbf{a}_2 + (z_4 + \frac{1}{2})\mathbf{a}_3$	=	$\frac{1}{4}a\hat{\mathbf{x}} + \frac{1}{4}a\hat{\mathbf{y}} + c(z_4 + \frac{1}{2})\hat{\mathbf{z}}$	(4c)	O I
\mathbf{B}_{17}	$\frac{1}{4}\mathbf{a}_1 + \frac{1}{4}\mathbf{a}_2 + z_5\mathbf{a}_3$	=	$\frac{1}{4}a\hat{\mathbf{x}} + \frac{1}{4}a\hat{\mathbf{y}} + cz_5\hat{\mathbf{z}}$	(4c)	O II
\mathbf{B}_{18}	$\frac{3}{4}\mathbf{a}_1 + \frac{3}{4}\mathbf{a}_2 - (z_5 - \frac{1}{2})\mathbf{a}_3$	=	$\frac{3}{4}a\hat{\mathbf{x}} + \frac{3}{4}a\hat{\mathbf{y}} - c(z_5 - \frac{1}{2})\hat{\mathbf{z}}$	(4c)	O II
\mathbf{B}_{19}	$\frac{3}{4}\mathbf{a}_1 + \frac{3}{4}\mathbf{a}_2 - z_5\mathbf{a}_3$	=	$\frac{3}{4}a\hat{\mathbf{x}} + \frac{3}{4}a\hat{\mathbf{y}} - cz_5\hat{\mathbf{z}}$	(4c)	O II
\mathbf{B}_{20}	$\frac{1}{4}\mathbf{a}_1 + \frac{1}{4}\mathbf{a}_2 + (z_5 + \frac{1}{2})\mathbf{a}_3$	=	$\frac{1}{4}a\hat{\mathbf{x}} + \frac{1}{4}a\hat{\mathbf{y}} + c(z_5 + \frac{1}{2})\hat{\mathbf{z}}$	(4c)	O II
\mathbf{B}_{21}	$x_6\mathbf{a}_1 + y_6\mathbf{a}_2 + z_6\mathbf{a}_3$	=	$ax_6\hat{\mathbf{x}} + ay_6\hat{\mathbf{y}} + cz_6\hat{\mathbf{z}}$	(16g)	H III
\mathbf{B}_{22}	$-(x_6 - \frac{1}{2})\mathbf{a}_1 - (y_6 - \frac{1}{2})\mathbf{a}_2 + z_6\mathbf{a}_3$	=	$-a(x_6 - \frac{1}{2})\hat{\mathbf{x}} - a(y_6 - \frac{1}{2})\hat{\mathbf{y}} + cz_6\hat{\mathbf{z}}$	(16g)	H III
\mathbf{B}_{23}	$-(y_6 - \frac{1}{2})\mathbf{a}_1 + x_6\mathbf{a}_2 + z_6\mathbf{a}_3$	=	$-a(y_6 - \frac{1}{2})\hat{\mathbf{x}} + ax_6\hat{\mathbf{y}} + cz_6\hat{\mathbf{z}}$	(16g)	H III
\mathbf{B}_{24}	$y_6\mathbf{a}_1 - (x_6 - \frac{1}{2})\mathbf{a}_2 + z_6\mathbf{a}_3$	=	$ay_6\hat{\mathbf{x}} - a(x_6 - \frac{1}{2})\hat{\mathbf{y}} + cz_6\hat{\mathbf{z}}$	(16g)	H III
\mathbf{B}_{25}	$-x_6\mathbf{a}_1 + (y_6 + \frac{1}{2})\mathbf{a}_2 - (z_6 - \frac{1}{2})\mathbf{a}_3$	=	$-ax_6\hat{\mathbf{x}} + a(y_6 + \frac{1}{2})\hat{\mathbf{y}} - c(z_6 - \frac{1}{2})\hat{\mathbf{z}}$	(16g)	H III
\mathbf{B}_{26}	$(x_6 + \frac{1}{2})\mathbf{a}_1 - y_6\mathbf{a}_2 - (z_6 - \frac{1}{2})\mathbf{a}_3$	=	$a(x_6 + \frac{1}{2})\hat{\mathbf{x}} - ay_6\hat{\mathbf{y}} - c(z_6 - \frac{1}{2})\hat{\mathbf{z}}$	(16g)	H III
\mathbf{B}_{27}	$(y_6 + \frac{1}{2})\mathbf{a}_1 + (x_6 + \frac{1}{2})\mathbf{a}_2 - (z_6 - \frac{1}{2})\mathbf{a}_3$	=	$a(y_6 + \frac{1}{2})\hat{\mathbf{x}} + a(x_6 + \frac{1}{2})\hat{\mathbf{y}} - c(z_6 - \frac{1}{2})\hat{\mathbf{z}}$	(16g)	H III

\mathbf{B}_{28}	$= -y_6 \mathbf{a}_1 - x_6 \mathbf{a}_2 - (z_6 - \frac{1}{2}) \mathbf{a}_3$	$= -ay_6 \hat{\mathbf{x}} - ax_6 \hat{\mathbf{y}} - c(z_6 - \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H III
\mathbf{B}_{29}	$= -x_6 \mathbf{a}_1 - y_6 \mathbf{a}_2 - z_6 \mathbf{a}_3$	$= -ax_6 \hat{\mathbf{x}} - ay_6 \hat{\mathbf{y}} - cz_6 \hat{\mathbf{z}}$	(16g)	H III
\mathbf{B}_{30}	$= (x_6 + \frac{1}{2}) \mathbf{a}_1 + (y_6 + \frac{1}{2}) \mathbf{a}_2 - z_6 \mathbf{a}_3$	$= a(x_6 + \frac{1}{2}) \hat{\mathbf{x}} + a(y_6 + \frac{1}{2}) \hat{\mathbf{y}} - cz_6 \hat{\mathbf{z}}$	(16g)	H III
\mathbf{B}_{31}	$= (y_6 + \frac{1}{2}) \mathbf{a}_1 - x_6 \mathbf{a}_2 - z_6 \mathbf{a}_3$	$= a(y_6 + \frac{1}{2}) \hat{\mathbf{x}} - ax_6 \hat{\mathbf{y}} - cz_6 \hat{\mathbf{z}}$	(16g)	H III
\mathbf{B}_{32}	$= -y_6 \mathbf{a}_1 + (x_6 + \frac{1}{2}) \mathbf{a}_2 - z_6 \mathbf{a}_3$	$= -ay_6 \hat{\mathbf{x}} + a(x_6 + \frac{1}{2}) \hat{\mathbf{y}} - cz_6 \hat{\mathbf{z}}$	(16g)	H III
\mathbf{B}_{33}	$= x_6 \mathbf{a}_1 - (y_6 - \frac{1}{2}) \mathbf{a}_2 + (z_6 + \frac{1}{2}) \mathbf{a}_3$	$= ax_6 \hat{\mathbf{x}} - a(y_6 - \frac{1}{2}) \hat{\mathbf{y}} + c(z_6 + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H III
\mathbf{B}_{34}	$= -(x_6 - \frac{1}{2}) \mathbf{a}_1 + y_6 \mathbf{a}_2 + (z_6 + \frac{1}{2}) \mathbf{a}_3$	$= -a(x_6 - \frac{1}{2}) \hat{\mathbf{x}} + ay_6 \hat{\mathbf{y}} + c(z_6 + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H III
\mathbf{B}_{35}	$= -(y_6 - \frac{1}{2}) \mathbf{a}_1 - (x_6 - \frac{1}{2}) \mathbf{a}_2 + (z_6 + \frac{1}{2}) \mathbf{a}_3$	$= -a(y_6 - \frac{1}{2}) \hat{\mathbf{x}} - a(x_6 - \frac{1}{2}) \hat{\mathbf{y}} + c(z_6 + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H III
\mathbf{B}_{36}	$= y_6 \mathbf{a}_1 + x_6 \mathbf{a}_2 + (z_6 + \frac{1}{2}) \mathbf{a}_3$	$= ay_6 \hat{\mathbf{x}} + ax_6 \hat{\mathbf{y}} + c(z_6 + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H III
\mathbf{B}_{37}	$= x_7 \mathbf{a}_1 + y_7 \mathbf{a}_2 + z_7 \mathbf{a}_3$	$= ax_7 \hat{\mathbf{x}} + ay_7 \hat{\mathbf{y}} + cz_7 \hat{\mathbf{z}}$	(16g)	H IV
\mathbf{B}_{38}	$= -(x_7 - \frac{1}{2}) \mathbf{a}_1 - (y_7 - \frac{1}{2}) \mathbf{a}_2 + z_7 \mathbf{a}_3$	$= -a(x_7 - \frac{1}{2}) \hat{\mathbf{x}} - a(y_7 - \frac{1}{2}) \hat{\mathbf{y}} + cz_7 \hat{\mathbf{z}}$	(16g)	H IV
\mathbf{B}_{39}	$= -(y_7 - \frac{1}{2}) \mathbf{a}_1 + x_7 \mathbf{a}_2 + z_7 \mathbf{a}_3$	$= -a(y_7 - \frac{1}{2}) \hat{\mathbf{x}} + ax_7 \hat{\mathbf{y}} + cz_7 \hat{\mathbf{z}}$	(16g)	H IV
\mathbf{B}_{40}	$= y_7 \mathbf{a}_1 - (x_7 - \frac{1}{2}) \mathbf{a}_2 + z_7 \mathbf{a}_3$	$= ay_7 \hat{\mathbf{x}} - a(x_7 - \frac{1}{2}) \hat{\mathbf{y}} + cz_7 \hat{\mathbf{z}}$	(16g)	H IV
\mathbf{B}_{41}	$= -x_7 \mathbf{a}_1 + (y_7 + \frac{1}{2}) \mathbf{a}_2 - (z_7 - \frac{1}{2}) \mathbf{a}_3$	$= -ax_7 \hat{\mathbf{x}} + a(y_7 + \frac{1}{2}) \hat{\mathbf{y}} - c(z_7 - \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H IV
\mathbf{B}_{42}	$= (x_7 + \frac{1}{2}) \mathbf{a}_1 - y_7 \mathbf{a}_2 - (z_7 - \frac{1}{2}) \mathbf{a}_3$	$= a(x_7 + \frac{1}{2}) \hat{\mathbf{x}} - ay_7 \hat{\mathbf{y}} - c(z_7 - \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H IV
\mathbf{B}_{43}	$= (y_7 + \frac{1}{2}) \mathbf{a}_1 + (x_7 + \frac{1}{2}) \mathbf{a}_2 - (z_7 - \frac{1}{2}) \mathbf{a}_3$	$= a(y_7 + \frac{1}{2}) \hat{\mathbf{x}} + a(x_7 + \frac{1}{2}) \hat{\mathbf{y}} - c(z_7 - \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H IV
\mathbf{B}_{44}	$= -y_7 \mathbf{a}_1 - x_7 \mathbf{a}_2 - (z_7 - \frac{1}{2}) \mathbf{a}_3$	$= -ay_7 \hat{\mathbf{x}} - ax_7 \hat{\mathbf{y}} - c(z_7 - \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H IV
\mathbf{B}_{45}	$= -x_7 \mathbf{a}_1 - y_7 \mathbf{a}_2 - z_7 \mathbf{a}_3$	$= -ax_7 \hat{\mathbf{x}} - ay_7 \hat{\mathbf{y}} - cz_7 \hat{\mathbf{z}}$	(16g)	H IV
\mathbf{B}_{46}	$= (x_7 + \frac{1}{2}) \mathbf{a}_1 + (y_7 + \frac{1}{2}) \mathbf{a}_2 - z_7 \mathbf{a}_3$	$= a(x_7 + \frac{1}{2}) \hat{\mathbf{x}} + a(y_7 + \frac{1}{2}) \hat{\mathbf{y}} - cz_7 \hat{\mathbf{z}}$	(16g)	H IV
\mathbf{B}_{47}	$= (y_7 + \frac{1}{2}) \mathbf{a}_1 - x_7 \mathbf{a}_2 - z_7 \mathbf{a}_3$	$= a(y_7 + \frac{1}{2}) \hat{\mathbf{x}} - ax_7 \hat{\mathbf{y}} - cz_7 \hat{\mathbf{z}}$	(16g)	H IV
\mathbf{B}_{48}	$= -y_7 \mathbf{a}_1 + (x_7 + \frac{1}{2}) \mathbf{a}_2 - z_7 \mathbf{a}_3$	$= -ay_7 \hat{\mathbf{x}} + a(x_7 + \frac{1}{2}) \hat{\mathbf{y}} - cz_7 \hat{\mathbf{z}}$	(16g)	H IV
\mathbf{B}_{49}	$= x_7 \mathbf{a}_1 - (y_7 - \frac{1}{2}) \mathbf{a}_2 + (z_7 + \frac{1}{2}) \mathbf{a}_3$	$= ax_7 \hat{\mathbf{x}} - a(y_7 - \frac{1}{2}) \hat{\mathbf{y}} + c(z_7 + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H IV
\mathbf{B}_{50}	$= -(x_7 - \frac{1}{2}) \mathbf{a}_1 + y_7 \mathbf{a}_2 + (z_7 + \frac{1}{2}) \mathbf{a}_3$	$= -a(x_7 - \frac{1}{2}) \hat{\mathbf{x}} + ay_7 \hat{\mathbf{y}} + c(z_7 + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H IV
\mathbf{B}_{51}	$= -(y_7 - \frac{1}{2}) \mathbf{a}_1 - (x_7 - \frac{1}{2}) \mathbf{a}_2 + (z_7 + \frac{1}{2}) \mathbf{a}_3$	$= -a(y_7 - \frac{1}{2}) \hat{\mathbf{x}} - a(x_7 - \frac{1}{2}) \hat{\mathbf{y}} + c(z_7 + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H IV
\mathbf{B}_{52}	$= y_7 \mathbf{a}_1 + x_7 \mathbf{a}_2 + (z_7 + \frac{1}{2}) \mathbf{a}_3$	$= ay_7 \hat{\mathbf{x}} + ax_7 \hat{\mathbf{y}} + c(z_7 + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H IV
\mathbf{B}_{53}	$= x_8 \mathbf{a}_1 + y_8 \mathbf{a}_2 + z_8 \mathbf{a}_3$	$= ax_8 \hat{\mathbf{x}} + ay_8 \hat{\mathbf{y}} + cz_8 \hat{\mathbf{z}}$	(16g)	H V
\mathbf{B}_{54}	$= -(x_8 - \frac{1}{2}) \mathbf{a}_1 - (y_8 - \frac{1}{2}) \mathbf{a}_2 + z_8 \mathbf{a}_3$	$= -a(x_8 - \frac{1}{2}) \hat{\mathbf{x}} - a(y_8 - \frac{1}{2}) \hat{\mathbf{y}} + cz_8 \hat{\mathbf{z}}$	(16g)	H V
\mathbf{B}_{55}	$= -(y_8 - \frac{1}{2}) \mathbf{a}_1 + x_8 \mathbf{a}_2 + z_8 \mathbf{a}_3$	$= -a(y_8 - \frac{1}{2}) \hat{\mathbf{x}} + ax_8 \hat{\mathbf{y}} + cz_8 \hat{\mathbf{z}}$	(16g)	H V
\mathbf{B}_{56}	$= y_8 \mathbf{a}_1 - (x_8 - \frac{1}{2}) \mathbf{a}_2 + z_8 \mathbf{a}_3$	$= ay_8 \hat{\mathbf{x}} - a(x_8 - \frac{1}{2}) \hat{\mathbf{y}} + cz_8 \hat{\mathbf{z}}$	(16g)	H V
\mathbf{B}_{57}	$= -x_8 \mathbf{a}_1 + (y_8 + \frac{1}{2}) \mathbf{a}_2 - (z_8 - \frac{1}{2}) \mathbf{a}_3$	$= -ax_8 \hat{\mathbf{x}} + a(y_8 + \frac{1}{2}) \hat{\mathbf{y}} - c(z_8 - \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H V
\mathbf{B}_{58}	$= (x_8 + \frac{1}{2}) \mathbf{a}_1 - y_8 \mathbf{a}_2 - (z_8 - \frac{1}{2}) \mathbf{a}_3$	$= a(x_8 + \frac{1}{2}) \hat{\mathbf{x}} - ay_8 \hat{\mathbf{y}} - c(z_8 - \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H V
\mathbf{B}_{59}	$= (y_8 + \frac{1}{2}) \mathbf{a}_1 + (x_8 + \frac{1}{2}) \mathbf{a}_2 - (z_8 - \frac{1}{2}) \mathbf{a}_3$	$= a(y_8 + \frac{1}{2}) \hat{\mathbf{x}} + a(x_8 + \frac{1}{2}) \hat{\mathbf{y}} - c(z_8 - \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H V
\mathbf{B}_{60}	$= -y_8 \mathbf{a}_1 - x_8 \mathbf{a}_2 - (z_8 - \frac{1}{2}) \mathbf{a}_3$	$= -ay_8 \hat{\mathbf{x}} - ax_8 \hat{\mathbf{y}} - c(z_8 - \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H V
\mathbf{B}_{61}	$= -x_8 \mathbf{a}_1 - y_8 \mathbf{a}_2 - z_8 \mathbf{a}_3$	$= -ax_8 \hat{\mathbf{x}} - ay_8 \hat{\mathbf{y}} - cz_8 \hat{\mathbf{z}}$	(16g)	H V

\mathbf{B}_{62}	$=$	$(x_8 + \frac{1}{2}) \mathbf{a}_1 + (y_8 + \frac{1}{2}) \mathbf{a}_2 - z_8 \mathbf{a}_3$	$=$	$a(x_8 + \frac{1}{2}) \hat{\mathbf{x}} + a(y_8 + \frac{1}{2}) \hat{\mathbf{y}} - cz_8 \hat{\mathbf{z}}$	(16g)	H V
\mathbf{B}_{63}	$=$	$(y_8 + \frac{1}{2}) \mathbf{a}_1 - x_8 \mathbf{a}_2 - z_8 \mathbf{a}_3$	$=$	$a(y_8 + \frac{1}{2}) \hat{\mathbf{x}} - ax_8 \hat{\mathbf{y}} - cz_8 \hat{\mathbf{z}}$	(16g)	H V
\mathbf{B}_{64}	$=$	$-y_8 \mathbf{a}_1 + (x_8 + \frac{1}{2}) \mathbf{a}_2 - z_8 \mathbf{a}_3$	$=$	$-ay_8 \hat{\mathbf{x}} + a(x_8 + \frac{1}{2}) \hat{\mathbf{y}} - cz_8 \hat{\mathbf{z}}$	(16g)	H V
\mathbf{B}_{65}	$=$	$x_8 \mathbf{a}_1 - (y_8 - \frac{1}{2}) \mathbf{a}_2 + (z_8 + \frac{1}{2}) \mathbf{a}_3$	$=$	$ax_8 \hat{\mathbf{x}} - a(y_8 - \frac{1}{2}) \hat{\mathbf{y}} + c(z_8 + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H V
\mathbf{B}_{66}	$=$	$-(x_8 - \frac{1}{2}) \mathbf{a}_1 + y_8 \mathbf{a}_2 + (z_8 + \frac{1}{2}) \mathbf{a}_3$	$=$	$-a(x_8 - \frac{1}{2}) \hat{\mathbf{x}} + ays_8 \hat{\mathbf{y}} + c(z_8 + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H V
\mathbf{B}_{67}	$=$	$-(y_8 - \frac{1}{2}) \mathbf{a}_1 - (x_8 - \frac{1}{2}) \mathbf{a}_2 + (z_8 + \frac{1}{2}) \mathbf{a}_3$	$=$	$-a(y_8 - \frac{1}{2}) \hat{\mathbf{x}} - a(x_8 - \frac{1}{2}) \hat{\mathbf{y}} + c(z_8 + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H V
\mathbf{B}_{68}	$=$	$y_8 \mathbf{a}_1 + x_8 \mathbf{a}_2 + (z_8 + \frac{1}{2}) \mathbf{a}_3$	$=$	$ay_8 \hat{\mathbf{x}} + ax_8 \hat{\mathbf{y}} + c(z_8 + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H V
\mathbf{B}_{69}	$=$	$x_9 \mathbf{a}_1 + y_9 \mathbf{a}_2 + z_9 \mathbf{a}_3$	$=$	$ax_9 \hat{\mathbf{x}} + ay_9 \hat{\mathbf{y}} + cz_9 \hat{\mathbf{z}}$	(16g)	H VI
\mathbf{B}_{70}	$=$	$-(x_9 - \frac{1}{2}) \mathbf{a}_1 - (y_9 - \frac{1}{2}) \mathbf{a}_2 + z_9 \mathbf{a}_3$	$=$	$-a(x_9 - \frac{1}{2}) \hat{\mathbf{x}} - a(y_9 - \frac{1}{2}) \hat{\mathbf{y}} + cz_9 \hat{\mathbf{z}}$	(16g)	H VI
\mathbf{B}_{71}	$=$	$-(y_9 - \frac{1}{2}) \mathbf{a}_1 + x_9 \mathbf{a}_2 + z_9 \mathbf{a}_3$	$=$	$-a(y_9 - \frac{1}{2}) \hat{\mathbf{x}} + ax_9 \hat{\mathbf{y}} + cz_9 \hat{\mathbf{z}}$	(16g)	H VI
\mathbf{B}_{72}	$=$	$y_9 \mathbf{a}_1 - (x_9 - \frac{1}{2}) \mathbf{a}_2 + z_9 \mathbf{a}_3$	$=$	$ay_9 \hat{\mathbf{x}} - a(x_9 - \frac{1}{2}) \hat{\mathbf{y}} + cz_9 \hat{\mathbf{z}}$	(16g)	H VI
\mathbf{B}_{73}	$=$	$-x_9 \mathbf{a}_1 + (y_9 + \frac{1}{2}) \mathbf{a}_2 - (z_9 - \frac{1}{2}) \mathbf{a}_3$	$=$	$-ax_9 \hat{\mathbf{x}} + a(y_9 + \frac{1}{2}) \hat{\mathbf{y}} - c(z_9 - \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H VI
\mathbf{B}_{74}	$=$	$(x_9 + \frac{1}{2}) \mathbf{a}_1 - y_9 \mathbf{a}_2 - (z_9 - \frac{1}{2}) \mathbf{a}_3$	$=$	$a(x_9 + \frac{1}{2}) \hat{\mathbf{x}} - ay_9 \hat{\mathbf{y}} - c(z_9 - \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H VI
\mathbf{B}_{75}	$=$	$(y_9 + \frac{1}{2}) \mathbf{a}_1 + (x_9 + \frac{1}{2}) \mathbf{a}_2 - (z_9 - \frac{1}{2}) \mathbf{a}_3$	$=$	$a(y_9 + \frac{1}{2}) \hat{\mathbf{x}} + a(x_9 + \frac{1}{2}) \hat{\mathbf{y}} - c(z_9 - \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H VI
\mathbf{B}_{76}	$=$	$-y_9 \mathbf{a}_1 - x_9 \mathbf{a}_2 - (z_9 - \frac{1}{2}) \mathbf{a}_3$	$=$	$-ay_9 \hat{\mathbf{x}} - ax_9 \hat{\mathbf{y}} - c(z_9 - \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H VI
\mathbf{B}_{77}	$=$	$-x_9 \mathbf{a}_1 - y_9 \mathbf{a}_2 - z_9 \mathbf{a}_3$	$=$	$-ax_9 \hat{\mathbf{x}} - ay_9 \hat{\mathbf{y}} - cz_9 \hat{\mathbf{z}}$	(16g)	H VI
\mathbf{B}_{78}	$=$	$(x_9 + \frac{1}{2}) \mathbf{a}_1 + (y_9 + \frac{1}{2}) \mathbf{a}_2 - z_9 \mathbf{a}_3$	$=$	$a(x_9 + \frac{1}{2}) \hat{\mathbf{x}} + a(y_9 + \frac{1}{2}) \hat{\mathbf{y}} - cz_9 \hat{\mathbf{z}}$	(16g)	H VI
\mathbf{B}_{79}	$=$	$(y_9 + \frac{1}{2}) \mathbf{a}_1 - x_9 \mathbf{a}_2 - z_9 \mathbf{a}_3$	$=$	$a(y_9 + \frac{1}{2}) \hat{\mathbf{x}} - ax_9 \hat{\mathbf{y}} - cz_9 \hat{\mathbf{z}}$	(16g)	H VI
\mathbf{B}_{80}	$=$	$-y_9 \mathbf{a}_1 + (x_9 + \frac{1}{2}) \mathbf{a}_2 - z_9 \mathbf{a}_3$	$=$	$-ay_9 \hat{\mathbf{x}} + a(x_9 + \frac{1}{2}) \hat{\mathbf{y}} - cz_9 \hat{\mathbf{z}}$	(16g)	H VI
\mathbf{B}_{81}	$=$	$x_9 \mathbf{a}_1 - (y_9 - \frac{1}{2}) \mathbf{a}_2 + (z_9 + \frac{1}{2}) \mathbf{a}_3$	$=$	$ax_9 \hat{\mathbf{x}} - a(y_9 - \frac{1}{2}) \hat{\mathbf{y}} + c(z_9 + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H VI
\mathbf{B}_{82}	$=$	$-(x_9 - \frac{1}{2}) \mathbf{a}_1 + y_9 \mathbf{a}_2 + (z_9 + \frac{1}{2}) \mathbf{a}_3$	$=$	$-a(x_9 - \frac{1}{2}) \hat{\mathbf{x}} + ays_9 \hat{\mathbf{y}} + c(z_9 + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H VI
\mathbf{B}_{83}	$=$	$-(y_9 - \frac{1}{2}) \mathbf{a}_1 - (x_9 - \frac{1}{2}) \mathbf{a}_2 + (z_9 + \frac{1}{2}) \mathbf{a}_3$	$=$	$-a(y_9 - \frac{1}{2}) \hat{\mathbf{x}} - a(x_9 - \frac{1}{2}) \hat{\mathbf{y}} + c(z_9 + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H VI
\mathbf{B}_{84}	$=$	$y_9 \mathbf{a}_1 + x_9 \mathbf{a}_2 + (z_9 + \frac{1}{2}) \mathbf{a}_3$	$=$	$ay_9 \hat{\mathbf{x}} + ax_9 \hat{\mathbf{y}} + c(z_9 + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	H VI
\mathbf{B}_{85}	$=$	$x_{10} \mathbf{a}_1 + y_{10} \mathbf{a}_2 + z_{10} \mathbf{a}_3$	$=$	$ax_{10} \hat{\mathbf{x}} + ay_{10} \hat{\mathbf{y}} + cz_{10} \hat{\mathbf{z}}$	(16g)	O III
\mathbf{B}_{86}	$=$	$-(x_{10} - \frac{1}{2}) \mathbf{a}_1 - (y_{10} - \frac{1}{2}) \mathbf{a}_2 + z_{10} \mathbf{a}_3$	$=$	$-a(x_{10} - \frac{1}{2}) \hat{\mathbf{x}} - a(y_{10} - \frac{1}{2}) \hat{\mathbf{y}} + cz_{10} \hat{\mathbf{z}}$	(16g)	O III
\mathbf{B}_{87}	$=$	$-(y_{10} - \frac{1}{2}) \mathbf{a}_1 + x_{10} \mathbf{a}_2 + z_{10} \mathbf{a}_3$	$=$	$-a(y_{10} - \frac{1}{2}) \hat{\mathbf{x}} + ax_{10} \hat{\mathbf{y}} + cz_{10} \hat{\mathbf{z}}$	(16g)	O III
\mathbf{B}_{88}	$=$	$y_{10} \mathbf{a}_1 - (x_{10} - \frac{1}{2}) \mathbf{a}_2 + z_{10} \mathbf{a}_3$	$=$	$ay_{10} \hat{\mathbf{x}} - a(x_{10} - \frac{1}{2}) \hat{\mathbf{y}} + cz_{10} \hat{\mathbf{z}}$	(16g)	O III
\mathbf{B}_{89}	$=$	$-x_{10} \mathbf{a}_1 + (y_{10} + \frac{1}{2}) \mathbf{a}_2 - (z_{10} - \frac{1}{2}) \mathbf{a}_3$	$=$	$-ax_{10} \hat{\mathbf{x}} + a(y_{10} + \frac{1}{2}) \hat{\mathbf{y}} - c(z_{10} - \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	O III
\mathbf{B}_{90}	$=$	$(x_{10} + \frac{1}{2}) \mathbf{a}_1 - y_{10} \mathbf{a}_2 - (z_{10} - \frac{1}{2}) \mathbf{a}_3$	$=$	$a(x_{10} + \frac{1}{2}) \hat{\mathbf{x}} - ay_{10} \hat{\mathbf{y}} - c(z_{10} - \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	O III
\mathbf{B}_{91}	$=$	$(y_{10} + \frac{1}{2}) \mathbf{a}_1 + (x_{10} + \frac{1}{2}) \mathbf{a}_2 - (z_{10} - \frac{1}{2}) \mathbf{a}_3$	$=$	$a(y_{10} + \frac{1}{2}) \hat{\mathbf{x}} + a(x_{10} + \frac{1}{2}) \hat{\mathbf{y}} - c(z_{10} - \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	O III
\mathbf{B}_{92}	$=$	$-y_{10} \mathbf{a}_1 - x_{10} \mathbf{a}_2 - (z_{10} - \frac{1}{2}) \mathbf{a}_3$	$=$	$-ay_{10} \hat{\mathbf{x}} - ax_{10} \hat{\mathbf{y}} - c(z_{10} - \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	O III
\mathbf{B}_{93}	$=$	$-x_{10} \mathbf{a}_1 - y_{10} \mathbf{a}_2 - z_{10} \mathbf{a}_3$	$=$	$-ax_{10} \hat{\mathbf{x}} - ay_{10} \hat{\mathbf{y}} - cz_{10} \hat{\mathbf{z}}$	(16g)	O III

B₉₄	$= (x_{10} + \frac{1}{2}) \mathbf{a}_1 + (y_{10} + \frac{1}{2}) \mathbf{a}_2 - z_{10} \mathbf{a}_3$	$= a(x_{10} + \frac{1}{2}) \hat{\mathbf{x}} + a(y_{10} + \frac{1}{2}) \hat{\mathbf{y}} - cz_{10} \hat{\mathbf{z}}$	(16g)	O III
B₉₅	$= (y_{10} + \frac{1}{2}) \mathbf{a}_1 - x_{10} \mathbf{a}_2 - z_{10} \mathbf{a}_3$	$= a(y_{10} + \frac{1}{2}) \hat{\mathbf{x}} - ax_{10} \hat{\mathbf{y}} - cz_{10} \hat{\mathbf{z}}$	(16g)	O III
B₉₆	$= -y_{10} \mathbf{a}_1 + (x_{10} + \frac{1}{2}) \mathbf{a}_2 - z_{10} \mathbf{a}_3$	$= -ay_{10} \hat{\mathbf{x}} + a(x_{10} + \frac{1}{2}) \hat{\mathbf{y}} - cz_{10} \hat{\mathbf{z}}$	(16g)	O III
B₉₇	$= x_{10} \mathbf{a}_1 - (y_{10} - \frac{1}{2}) \mathbf{a}_2 + (z_{10} + \frac{1}{2}) \mathbf{a}_3$	$= ax_{10} \hat{\mathbf{x}} - a(y_{10} - \frac{1}{2}) \hat{\mathbf{y}} + c(z_{10} + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	O III
B₉₈	$= -(x_{10} - \frac{1}{2}) \mathbf{a}_1 + y_{10} \mathbf{a}_2 + (z_{10} + \frac{1}{2}) \mathbf{a}_3$	$= -a(x_{10} - \frac{1}{2}) \hat{\mathbf{x}} + ay_{10} \hat{\mathbf{y}} + c(z_{10} + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	O III
B₉₉	$= -(y_{10} - \frac{1}{2}) \mathbf{a}_1 - (x_{10} - \frac{1}{2}) \mathbf{a}_2 + (z_{10} + \frac{1}{2}) \mathbf{a}_3$	$= -a(y_{10} - \frac{1}{2}) \hat{\mathbf{x}} - a(x_{10} - \frac{1}{2}) \hat{\mathbf{y}} + c(z_{10} + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	O III
B₁₀₀	$= y_{10} \mathbf{a}_1 + x_{10} \mathbf{a}_2 + (z_{10} + \frac{1}{2}) \mathbf{a}_3$	$= ay_{10} \hat{\mathbf{x}} + ax_{10} \hat{\mathbf{y}} + c(z_{10} + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	O III
B₁₀₁	$= x_{11} \mathbf{a}_1 + y_{11} \mathbf{a}_2 + z_{11} \mathbf{a}_3$	$= ax_{11} \hat{\mathbf{x}} + ay_{11} \hat{\mathbf{y}} + cz_{11} \hat{\mathbf{z}}$	(16g)	O IV
B₁₀₂	$= -(x_{11} - \frac{1}{2}) \mathbf{a}_1 - (y_{11} - \frac{1}{2}) \mathbf{a}_2 + z_{11} \mathbf{a}_3$	$= -a(x_{11} - \frac{1}{2}) \hat{\mathbf{x}} - a(y_{11} - \frac{1}{2}) \hat{\mathbf{y}} + cz_{11} \hat{\mathbf{z}}$	(16g)	O IV
B₁₀₃	$= -(y_{11} - \frac{1}{2}) \mathbf{a}_1 + x_{11} \mathbf{a}_2 + z_{11} \mathbf{a}_3$	$= -a(y_{11} - \frac{1}{2}) \hat{\mathbf{x}} + ax_{11} \hat{\mathbf{y}} + cz_{11} \hat{\mathbf{z}}$	(16g)	O IV
B₁₀₄	$= y_{11} \mathbf{a}_1 - (x_{11} - \frac{1}{2}) \mathbf{a}_2 + z_{11} \mathbf{a}_3$	$= ay_{11} \hat{\mathbf{x}} - a(x_{11} - \frac{1}{2}) \hat{\mathbf{y}} + cz_{11} \hat{\mathbf{z}}$	(16g)	O IV
B₁₀₅	$= -x_{11} \mathbf{a}_1 + (y_{11} + \frac{1}{2}) \mathbf{a}_2 - (z_{11} - \frac{1}{2}) \mathbf{a}_3$	$= -ax_{11} \hat{\mathbf{x}} + a(y_{11} + \frac{1}{2}) \hat{\mathbf{y}} - c(z_{11} - \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	O IV
B₁₀₆	$= (x_{11} + \frac{1}{2}) \mathbf{a}_1 - y_{11} \mathbf{a}_2 - (z_{11} - \frac{1}{2}) \mathbf{a}_3$	$= a(x_{11} + \frac{1}{2}) \hat{\mathbf{x}} - ay_{11} \hat{\mathbf{y}} - c(z_{11} - \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	O IV
B₁₀₇	$= (y_{11} + \frac{1}{2}) \mathbf{a}_1 + (x_{11} + \frac{1}{2}) \mathbf{a}_2 - (z_{11} - \frac{1}{2}) \mathbf{a}_3$	$= a(y_{11} + \frac{1}{2}) \hat{\mathbf{x}} + a(x_{11} + \frac{1}{2}) \hat{\mathbf{y}} - c(z_{11} - \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	O IV
B₁₀₈	$= -y_{11} \mathbf{a}_1 - x_{11} \mathbf{a}_2 - (z_{11} - \frac{1}{2}) \mathbf{a}_3$	$= -ay_{11} \hat{\mathbf{x}} - ax_{11} \hat{\mathbf{y}} - c(z_{11} - \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	O IV
B₁₀₉	$= -x_{11} \mathbf{a}_1 - y_{11} \mathbf{a}_2 - z_{11} \mathbf{a}_3$	$= -ax_{11} \hat{\mathbf{x}} - ay_{11} \hat{\mathbf{y}} - cz_{11} \hat{\mathbf{z}}$	(16g)	O IV
B₁₁₀	$= (x_{11} + \frac{1}{2}) \mathbf{a}_1 + (y_{11} + \frac{1}{2}) \mathbf{a}_2 - z_{11} \mathbf{a}_3$	$= a(x_{11} + \frac{1}{2}) \hat{\mathbf{x}} + a(y_{11} + \frac{1}{2}) \hat{\mathbf{y}} - cz_{11} \hat{\mathbf{z}}$	(16g)	O IV
B₁₁₁	$= (y_{11} + \frac{1}{2}) \mathbf{a}_1 - x_{11} \mathbf{a}_2 - z_{11} \mathbf{a}_3$	$= a(y_{11} + \frac{1}{2}) \hat{\mathbf{x}} - ax_{11} \hat{\mathbf{y}} - cz_{11} \hat{\mathbf{z}}$	(16g)	O IV
B₁₁₂	$= -y_{11} \mathbf{a}_1 + (x_{11} + \frac{1}{2}) \mathbf{a}_2 - z_{11} \mathbf{a}_3$	$= -ay_{11} \hat{\mathbf{x}} + a(x_{11} + \frac{1}{2}) \hat{\mathbf{y}} - cz_{11} \hat{\mathbf{z}}$	(16g)	O IV
B₁₁₃	$= x_{11} \mathbf{a}_1 - (y_{11} - \frac{1}{2}) \mathbf{a}_2 + (z_{11} + \frac{1}{2}) \mathbf{a}_3$	$= ax_{11} \hat{\mathbf{x}} - a(y_{11} - \frac{1}{2}) \hat{\mathbf{y}} + c(z_{11} + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	O IV
B₁₁₄	$= -(x_{11} - \frac{1}{2}) \mathbf{a}_1 + y_{11} \mathbf{a}_2 + (z_{11} + \frac{1}{2}) \mathbf{a}_3$	$= -a(x_{11} - \frac{1}{2}) \hat{\mathbf{x}} + ay_{11} \hat{\mathbf{y}} + c(z_{11} + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	O IV
B₁₁₅	$= -(y_{11} - \frac{1}{2}) \mathbf{a}_1 - (x_{11} - \frac{1}{2}) \mathbf{a}_2 + (z_{11} + \frac{1}{2}) \mathbf{a}_3$	$= -a(y_{11} - \frac{1}{2}) \hat{\mathbf{x}} - a(x_{11} - \frac{1}{2}) \hat{\mathbf{y}} + c(z_{11} + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	O IV
B₁₁₆	$= y_{11} \mathbf{a}_1 + x_{11} \mathbf{a}_2 + (z_{11} + \frac{1}{2}) \mathbf{a}_3$	$= ay_{11} \hat{\mathbf{x}} + ax_{11} \hat{\mathbf{y}} + c(z_{11} + \frac{1}{2}) \hat{\mathbf{z}}$	(16g)	O IV

References

- [1] J. S. Ricci, R. C. Stevens, R. K. McMullan, and W. T. Klooster, *Structure of strontium hydroxide octahydrate, Sr(OH)₂·8H₂O, at 20, 100 and 200 K from neutron diffraction*, Acta Crystallogr. Sect. B **61**, 381–386 (2005), doi:10.1107/S0108768105013480.
- [2] G. Natta, *Constitution of hydroxides and of hydrates. III. Octahydrated strontium hydroxide*, Gazz. chim. Ital. **58**, 870–872 (1928).
- [3] C. Hermann, O. Lohrmann, and H. Philipp, eds., *Strukturbericht Band II 1928-1932* (Akademische Verlagsgesellschaft M. B. H., Leipzig, 1937).