

Fig. 1. Relationship between X-ray and electron structure amplitudes and atomic scattering factors. $\varrho_{\mathrm{ct}}$. and $\varrho_{\text {nuct. }}$ are charge densities with units coulomb $\AA^{-3}$, while $\varrho_{p}$ and $\varrho(\mathbf{r})$ are electron densities with units electron $\AA^{-3}$.

$$
\sigma=\frac{\pi}{W \lambda} \cdot \frac{2}{1+\left(1-\frac{v^{2}}{c^{2}}\right)^{1 / 2}}
$$

$W$ is the accelerating voltage, and the other symbols have their conventional meaning.) Since the dimensionless quantity $\sigma V(\mathbf{h}) H$ is important in all scattering calculations, some typical values for $\sigma$ are given in Table 1.

The direct relationship between the atomic scattering factors for electrons and X-rays is obtained by taking Fourier transforms of both sides of Poisson's equation and
applying standard boundary conditions at infinity to give

$$
\mathscr{F} \phi=f_{p}(\mathbf{s})=\frac{1}{\pi}\left\{\frac{\mathscr{F} \varrho_{\mathrm{nucl}}-e f_{p}(\mathbf{s})}{s^{2}}\right\},
$$

where $s=2 \sin \theta / \lambda, e$ is the electronic charge, and $f_{p}(\mathbf{s})$ the X-ray atomic scattering factor.

## Reference

International Tables for X-ray Crystallography (1962). Vol. III. Birmingham: Kynoch Press.

Acta Cryst. (1973). A 29, 298
Erratum to: $\boldsymbol{n}$-Beam lattice images. I. Experimental and computed images from $\mathbf{W}_{4} \mathbf{N b}_{26} \mathbf{O}_{77}$. By J. G. Allpress, Elizabeth A. Hewatt, A. F. Moodie and J. V. Sanders, Division of Chemical Physics, CSIRO, P.O. Box 160, Clayton, Victoria, Australia 3168*
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Corrections are given to Allpress, Hewatt, Moodie \& Sanders [Acta Cryst. (1972). A28, 528-536].

The following corrections to Allpress, Hewatt, Moodie \& Sanders (1972) are given.

1. Page 529, equation (2) and next line should read:

$$
\begin{equation*}
U_{n+1}=U_{n} \exp [+i 2 \pi \xi(h, k) \Delta z] * Q_{n+1} \tag{2}
\end{equation*}
$$

where $\zeta(h, k)=-\left(u^{2}+v^{2}\right) \lambda / 2$ is the excitation error for
2. Page 530, column one, fifth line from the bottom should read:

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tude of the diffraction pattern with $\exp \left\{-i \pi \lambda \varepsilon\left(u^{2}+v^{2}\right)\right\}$, ( $u, v$ ) being the reciprocal lattice coordinates of the appropriate reflexions.

3. Page 531, column two, line one should read:
$C * \mathscr{S}$ and $\overline{C \varrho}_{p}=C \varrho_{p}{ }^{*} \mathscr{S}$, where $\mathscr{S}$ is the shape transform of
4. Page 535 , column one line 13 should read:
$I_{0}=\left(\bar{C}^{2}+\bar{S}^{2}\right) ;$ i.e. at the Gaussian focus, the contrast

## Reference

Allpress, J. G., Hewatt, E. A., Moodie, A. F. \& Sanders, J. V. (1972). Acta Cryst. A 28, 528-536.

