

the insensitivity of $R_w(F^2)$ to the polarizing functions is evidently attributable primarily to their strong correlations with the atomic coordinates rather than to their inaccessibility with the present X-ray data. These correlations are a consequence of an overall similarity between the scattering factors φ'_0 and the derivatives of the structure factors (of the static density) with respect to the corresponding atomic coordinates. They are therefore unlikely to be substantially reduced even at much lower temperatures and with much higher resolution. A more promising strategy might be the collection of extremely precise neutron data sufficient to establish the nuclear positions to within about 0.0001 Å. If the core polarization is indeed of the form given by the functions ρ'_0 defined above, an uncertainty Δr in atomic position corresponds to an approximate uncertainty in electric field, due to the correlation between them, of

$$\Delta E \sim 2Z^3 \Delta r / 3a_0^3.$$

This assumes an error in the coefficient of ρ'_0 sufficient

to displace the centroid of the two-electron core by $\sim \Delta r$. For the atoms C, N, and F, an error in position of 0.0001 Å as derived by neutron diffraction would lead to an error of about 0.10, 0.15, and 0.33 eÅ⁻², respectively, in the field at the nucleus from this source alone if the coefficients c'_0 were refined without constraint.

References

- BINGEL, W. A. (1967). *Theor. Chim. Acta*, **8**, 54-61.
 DUNITZ, J. D., SCHWEIZER, W. B. & SEILER, P. (1982). *Helv. Chim. Acta*, **66**, 123-133.
 HIRSHFELD, F. L. (1971). *Acta Cryst.* **B27**, 769-781.
 HIRSHFELD, F. L. (1977). *Isr. J. Chem.* **16**, 226-229.
 HIRSHFELD, F. L. (1984). *Acta Cryst.* **B40**, 484-492.
 HIRSHFELD, F. L. & RZOTKIEWICZ, S. (1974). *Mol. Phys.* **27**, 1319-1343.
 SCHWARZENBACH, D. & LEWIS, J. (1982). *Electron Distributions and the Chemical Bond*, edited by P. COPPENS & M. B. HALL, pp. 413-430. New York, London: Plenum.
 SEILER, P., SCHWEIZER, W. B. & DUNITZ, J. D. (1984). *Acta Cryst.* **B40**, 319-327.
 STEINER, E. (1963). *J. Chem. Phys.* **39**, 2365-2366.

International Union of Crystallography

Acta Cryst. (1984). **B40**, 615-616

Prices of *Acta Crystallographica* and *Journal of Applied Crystallography*

The Executive Committee of the International Union of Crystallography is pleased that it has not been necessary to increase the regular-price subscription rates and the prices of back numbers for *Acta Crystallographica* and *Journal of Applied Crystallography* as from 1 January 1985. The subscription rates for personal copies of *Acta Crystallographica* have been increased slightly.

Acta Crystallographica

The following rates will apply for Volumes A41, B41 and C41 (1985). Note that, except as single parts, Sections B and C are only available together. All subscription rates are fixed in Danish kroner, and the US dollar equivalents given below are subject to exchange-rate fluctuations and amendment without notice.

Complete volumes, regular price per volume

Sections A, B & C (combined subscription)	Dkr 5250	(\$571)
Section A only	Dkr 1275	(\$139)
Sections B & C (combined subscription)	Dkr 4200	(\$457)

Complete volumes, reduced price for individuals

Sections A, B & C (combined subscription)	Dkr 1450	(\$158)
Section A only	Dkr 350	(\$38)
Sections B & C (combined subscription)	Dkr 1200	(\$130)

All subscribers in the USA and Canada should add to the above subscription rates the additional charges for air-freighting as mentioned below.

The reduced-rate subscriptions are ordinarily only available to members of recognized scientific societies, and applications must be accompanied by a written undertaking that the journal is for the personal use of the subscriber and will not be made available to libraries, institutions, etc. These conditions also apply to persons wishing to order back numbers at the reduced rates.

Single parts

The prices of single parts are as follows:

Vol. A 41	Dkr 320	(\$35)
Vol. B 41	Dkr 320	(\$35)
Vol. C 41	Dkr 320	(\$35)

Journal of Applied Crystallography

The following rates will apply for Volume 18 (1985). All subscription rates are fixed in Danish kroner, and the US dollar equivalents given below are subject to exchange-rate fluctuations and amendment without notice.

<i>Complete volumes, regular price per volume</i>	Dkr 1275	(\$139)
<i>Complete volumes, reduced price for individuals</i>	Dkr 400	(\$43)

All the subscribers in the USA and Canada should add to the above subscription rates the additional charge for air-freighting as mentioned below.

The same conditions apply to reduced-rate subscriptions as in the case of *Acta Crystallographica* (see above).

Single parts

The price for single parts of Volume 18 (1985) is Dkr 320 (\$35).

Airfreighting of copies to the USA and Canada

Deliveries of *Acta Crystallographica* and *Journal of Applied Crystallography* to the USA and Canada in 1985 will continue to be by air freight to New York and thence by second class mail. The use of this service is obligatory for all subscribers in those countries. The charges in Danish kroner are as given below.

Acta Crystallographica

Sections A, B & C (combined subscription)	Add Dkr 380	(\$41)
Section A only	Add Dkr 90	(\$10)
Sections B & C (combined subscription)	Add Dkr 290	(\$32)

Journal of Applied Crystallography Add Dkr 70 (\$8)

Since the charges are fixed in Danish kroner, the US dollar equivalents are subject to exchange-rate fluctuations.

Prices of back numbers

In response to requests, back volumes of Section B and Section C may be purchased separately. All these prices are fixed in Danish kroner and the US dollar equivalents given below are subject to exchange-rate fluctuations.

Acta Crystallographica

Complete volumes, regular price per volume

Vols. 1-23	Dkr 1275	(\$139)
Combined Vols. 24-38	Dkr 4600	(\$500)
Combined Vols. 39-40	Dkr 5250	(\$571)
Vols. A24-A40	Dkr 1275	(\$139)
Vols. B24-B38	Dkr 3500	(\$380)
Vols. B39-B40	Dkr 1450	(\$158)
Vols. C39-C40	Dkr 2900	(\$315)
Combined Vols. B39 and C39	Dkr 4200	(\$457)
Combined Vols. B40 and C40	Dkr 4200	(\$457)

Complete volumes, reduced price for individuals

Vols. 1-23	Dkr 350	(\$38)
Combined Vols. 24-38	Dkr 1300	(\$141)
Combined Vols. 39-40	Dkr 1450	(\$158)
Vols. A24-A40	Dkr 350	(\$38)
Vols. B24-B38	Dkr 1050	(\$114)
Vols. B39-B40	Dkr 400	(\$43)
Vols. C39-C40	Dkr 800	(\$87)
Combined Vols. B39 and C39	Dkr 1200	(\$130)
Combined Vols. B40 and C40	Dkr 1200	(\$130)

Single parts

The prices of single parts are as follows:

Vols. A24-A40	Dkr 320	(\$35)
Vols. B24-B40	Dkr 320	(\$35)
Vols. C39-C40	Dkr 320	(\$35)

Single parts of Volumes 1-23 are not available

Cumulative Indexes, regular price

Vols. 11-23 (1958-1967)	Dkr 120	(\$13)
Vols. 24-28 (1968-1972)	Dkr 120	(\$13)
Vols. 29-38 (1973-1982)	Dkr 150	(\$16)

Cumulative Indexes, reduced price for individuals

Vols. 11-23 (1958-1967)	Dkr 60	(\$7)
Vols. 24-28 (1968-1972)	Dkr 60	(\$7)
Vols. 29-38 (1973-1982)	Dkr 75	(\$8)

A few copies of the cumulative index for Volumes 1-10 (1948-1957) are also available, free of charge.

Journal of Applied Crystallography

Complete volumes, regular price per volume

Vols. 1-17	Dkr 1275	(\$139)
------------	----------	---------

Complete volumes, reduced price for individuals

Vols. 1-17	Dkr 400	(\$43)
------------	---------	--------

Single parts

The price of single parts is as follows:

Vols. 1-17	Dkr 320	(\$35)
------------	---------	--------

Orders

Orders for *Acta Crystallographica* and *Journal of Applied Crystallography* may be addressed to Munksgaard International Publishers Ltd., 35 Nørre Søgade, DK-1370 Copenhagen K, Denmark. Orders from subscribers in North America may alternatively be placed through Polycrystal Book Service, PO Box 27, Western Springs, Ill 60558, USA.