19.X-1   PROPOSAL FROM THE SUBCOMMITTEE OF THE COM-
MISSION ON JOURNALS WITH THE CHARGE OF DEVELOPING A
UNIFORM NOMENCLATURE FOR THOSE PARAMETERS THAT ARE
OPERATIONALLY RELATED TO OR MEASURE THE INFLUENCE OF
TEMPERATURE ON SCATTERING. By H. Hope, M.B. Hursthouse
and S.E. Rasmussen.

The first recommendation of the subcommittee is to re-
serve the word "factor" for the full exponential ex-
pression:

$$\exp-(2\pi^2(h^2a^{*2}U_{11}+k^2b^{*2}U_{22}+l^2c^{*2}U_{33}+2hka^*b^*U_{12}+$$

$$2hla^*c^*U_{13}+2klb^*c^*U_{23}))$$

The subcommittee proposes that this expression should be
called the "atomic displacement factor" when it is re-
ferred to in general terms and that it may be called
"displacement factor" for short when the more complete
terminology has been used previously. It is further pro-
posed that the sequence of the U's should be: U_{11} U_{22}
U_{33} U_{12} U_{13} U_{23} and that capital U implies the dimen-
sion $\mathring{A}^2$ whereas lower case u implies A.
The coefficients "U_{ij}" should be called "Mean square
displacement coefficients" the first time they are re-
ferred to in a paper. If u_{ij} values are referred to,
they should be called "rms displacement coefficients".
After that, they could be called "U_{ij} coefficients" as
a short notation. If authors give B_{ij} values, these
could be called "B_{ij} coefficients". Other acceptable
short notations could be "U_{ij} (B_{ij}) values". The use of
lower case letter "b_{ij}" values for dimensionless coef-
ficients should be discouraged.

19.X-2   STATUS OF VOLUME A. By Th. Hahn, Institut
für Kristallographie der RWTH, D-5100 Aachen, Federal
Republic of Germany.

The first edition of Volume A (Space-Group Symmetry) of
International Tables for Crystallography appeared in
November 1983 and sold out quickly. A reprint with cor-
rections was published in the spring of 1984. The Errata
were also published in Acta Cryst. (1984). A40, 485.

The second revised edition of Volume A is in press and
scheduled for publication in May 1987. The main features
of the revision, apart from corrections of errors, are
as follows:

- Substantial modifications and amendments to several
portions of text and to the list of references.

- New diagrams of improved clarity for the 17 plane
groups and the 25 trigonal (including rhombohedral)
space groups, prepared by R. A. Becker at Aachen. For
the third edition new diagrams also for the tetragonal
and hexagonal space groups are planned.

- Incorporation of two new sections on normalizers: Sec-
tion 8.3.6 by H. Wondratschek, Normalizers of Space
Groups (4 pages), deals with affine and Euclidean norma-
lizers in the framework of space-group symmetry. Section
15 by E. Koch and W. Fischer, Euclidean and Affine Nor-
malizers of Space Groups and their Use in Crystallogra-
phy (14 pages), contains complete lists of the Euclidean
and affine normalizers of space groups, plane groups,
and point groups. Both sections provide examples, appli-
cations, and suitable references.

A Brief Teaching Edition of Volume A was published in
June 1985. A second revised edition is in preparation.

19.X-3   STATUS OF VOLUME B.   By Uri Shmueli,
School of Chemistry, Tel Aviv University, Ramat
Aviv, 69 978 Tel Aviv, Israel.

The purpose of the preparation of Volume B of Inter-
national Tables for Crystallography is to present
their reader/user with competent and useful accounts
of the various aspects of reciprocal space in crys-
tallographic research. The early planning of this
volume was completed during the Hamburg Congress of
the IUCr, and the volume was subdivided into Parts
and Chapters as follows:

Part 1.   GENERAL RELATIONSHIPS AND TECHNIQUES
Ch. 1.1   Reciprocal Space in Crystallography [AD]
Ch. 1.2   The Structure Factor [AD]
Ch. 1.3   Fourier Methods [0]
Ch. 1.4   Symmetry in Reciprocal Space [AD]

Part 2.   RECIPROCAL SPACE IN CRYSTAL STRUCTURE
              DETERMINATION
Ch. 2.1   Statistical Properties of the Weighted
              Reciprocal Lattice [AD]
Ch. 2.2   Direct Methods [C]
Ch. 2.3   Patterson and Molecular Replacement
              Techniques [C]
Ch. 2.4   Isomorphous Replacement and Anomalous
              Dispersion [0]
Ch. 2.5   Electron Diffraction and Microscopy in
              Structure Determination [AD - C]

Part 3.   DUAL BASES IN CRYSTALLOGRAPHIC COMPUTING
Ch. 3.1   Distances, Angles and their Standard
              Deviations [C]
Ch. 3.2   Best-Plane Calculations [PD]
Ch. 3.3   Molecular Modelling and Graphics [AD]
Ch. 3.4   Accelerated Convergence of Lattice Sums [AD]

Part 4.   DIFFUSE SCATTERING AND RELATED TOPICS
Ch. 4.1   Thermal Diffuse Scattering of X-rays and
              Neutrons [C]
Ch. 4.2   Disorder Diffuse Scattering of X-rays and
              Neutrons [AD]
Ch. 4.3   Diffuse Scattering in Electron Diffraction
              [AD]
Ch. 4.4   Small Crystallite Size and Texture [0]
Ch. 4.5   Strain [0]
Ch. 4.6   Scattering from Mesomorphic Structures [0]
Ch. 4.7   Small Angle Scattering [PD]

Part 5.   DYNAMICAL THEORY AND ITS APPLICATIONS
Ch. 5.1   X-ray and Neutron Aspects of Dynamical
              Theory [0]
Ch. 5.2   Dynamical Theory of Electron Diffraction [AD]

The situation at the beginning of February 1987 is in-
dicated by the symbols in square brackets: C - comple-
te, AD - advanced draft, PD - preliminary draft, 0 -
nothing in the hands of the Editor.

Various attempts have been made by the Technical Edi-
tor to establish a photocomposition procedure which
accepts directly author-supplied computer-readable ma-
terial. This is of particular importance when type-
setting computer- generated Tables of some complexity
(e.g. in Chapter 1.4).

The Editor hopes that the degree of completion of Volu-
me B will improve by the time he reports to the Open
Meeting in Perth.