appear in even highly over-exposed c-axis zero-layer Weissenberg photograph.

The (050) spot is a sharp one and is not accompanied by the usual β spot which other equally intense normal spots have. So these two reflexions were suspected to be double reflexions (Renninger, 1937). They were verified to be so by drawing the reciprocal lattice and considering the reflexion conditions graphically and also analytically. The pairs of reflexions responsible for the formation of (050) are $(12\overline{2}, \overline{1}32)$ and $(203, \overline{2}5\overline{3})$, and that responsible for (010) reflexion is $(1\overline{2}3, \overline{1}3\overline{3})$. The normal (0k0) reflexions with k odd are thus absent. No other systematic absences are found. Hence the space group of o-tolidine is $P2_12_12_1(Q^4-D_2^4)$.

Unit-cell dimensions were measured from carefully calibrated rotation and zero-layer Weissenberg photographs. High-angle reflexions, where the $K\alpha_1\alpha_2$ doublets were well resolved, were used. The dimensions were found to be: $a=6.412,\ b=7.490$ and c=23.758 Å. (The wave lengths of Co $K\alpha_1$ and $K\alpha_2$ have been taken

as 1.78892 Å and 1.79278 Å respectively.) The density of o-tolidine is 1.234 g.cm.⁻³ as obtained by the flotation method using ZnSO₄. The number of molecules per unit cell is 4 and the density calculated is 1.236 g.cm.⁻³. The observed and calculated interfacial angles are:

Angle	Obs.	Calc.
(001):(012)	57° 51′	57° 47′
(001):(101)	74° 50′	74° 54′

The author wishes to express his thanks to Prof. B. N. Srivastava, D.Sc., F.N.I., for his keen interest in the problem and to Dr B. V. R. Murty, for suggesting the problem and guidance throughout the piece of work.

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Notes and News

Announcements and other items of crystallographic interest will be published under this heading at the discretion of the Editorial Board. Copy should be sent direct to the Editor (P. P. Ewald, Polytechnic Institute of Brooklyn, 333 Jay Street, Brooklyn 1, N.Y., U.S.A.) or to the Technical Editor (R. W. Asmussen, Chemical Laboratory B of the Technical University of Denmark, Sølvgade 83, Copenhagen K, Denmark)

Tables of Interatomic Distances and Configuration in Molecules and Ions

The Editors of Volume III of the International Tables for X-ray Crystallography have had a difficult task in deciding where to stop. This Volume is intended to give Tables of physical and chemical data which will be of value in crystal structure determination and in related fields. Obviously it is of the greatest importance in crystal analysis to have information about interatomic distances and molecular configurations in previously analysed structures. Yet to give them all would mean a serious loss of balance and increase of size of the Volume.

This problem has now been solved by the appearance of Special Publication No. 11 of the Chemical Society of London: 'Interatomic Distances and Configuration in Molecules and Ions', which at £ 2.2.0 (U.S.A. \$ 6.00) is such excellent value that every crystallographer should have a personal copy as well as recommending it to any library used by science students, teachers or research workers. The Scientific Editor, Dr. L. E. Sutton, gave a lecture at the Fourth International Congress in Crystallography held in Montreal in 1957, on the general subject of this most noteworthy publication.

KATHLEEN LONSDALE

Book Reviews

Works intended for notice in this column should be sent direct to the Editor (P.P. Ewald, Polytechnic Institute of Brooklyn, 333, Jay Street, Brooklyn 1, N.Y., U.S.A.). As far as practicable books will be reviewed in a country different from that of publication.

Structure Reports for 1951. Volume 15. A. J. C. Wilson, general editor. Published for the International Union of Crystallography. Utrecht: N. V. A. Oosthoek's Uitgevers Mij. 1957, vii+588 pp., 145 figs. Price (bound) 110 Dutch florins, £10.10.0, \$29.00.

A concise summary of the results attained by the X-ray analysis of various substances began as Strukturbericht in 1931 (for 1913–1928), continued as Structure Reports,

and has by now covered the long period of X-ray studies of structures from 1913 to 1951. The present volume, marked as Volume 15 for 1951 follows Volume 13 for 1950, but as mentioned in the prospectus—but not in the volume itself—the vacant position to be filled by volume 14 is reserved for cumulative indexes for the previous volumes. The laborious task of presenting the data is done by a team of editors (one general, three sectional) and twenty six abstractors. As on former occasions the volume is divided into three sections: