

Whether it is to be used for visual observation or the photography of metal, the Bausch & Lomb ILS Metallographic Equipment provides an instrument easily adaptable to meet the major demands of metallography.

It is permanently aligned to insure the perfectly centered illumination required for good photographs. Specimens can be examined or photographed over a wide range of magnifications.

The many other features built into this instrument aid the metallographer in doing analytical work quickly and with a minimum of effort. For complete information send for Catalog E-29. Bausch & Lomb Optical Co., 642-4 St. Paul Street, Rochester 2, N. Y.

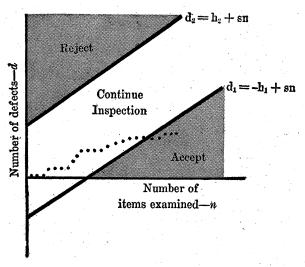
BAUSCH & LOMB

ESTABLISHED 185



When this chart has been constructed, the procedure consists simply of the sequential plotting against n (number of items examined) of the number of defects observed, d, for which the vertical scale is used. This

Acceptance Inspection Chart



is continued until the plotted line runs either into the area of acceptance or into that of rejection. The dotted line in the figure shows how a set of results would lead, for example, to acceptance.

The equations for the two lines that mark the margins of acceptance and of rejection are derived from the following set of inequalities:

$$B.14 \qquad \qquad \frac{p_2^d (1-p_2)^{n-d}}{p_1^d (1-p_1)^{n-d}}$$

By taking logarithms, this becomes

B.15
$$d \log \frac{p_2}{p_1}$$
 (n-d) $\log \frac{1-p_1}{1-p_2}$ $\begin{cases} \stackrel{\geq}{\leq} a \\ \stackrel{\leq}{\leq} b \\ a \text{ and } > -b \end{cases}$

in which $a = \log A$ and $b = \log B$.

From the first inequality in B.15, the marginal line is obtained by $d_1 = -h_1 + sn$; from the second inequality in B.15, the marginal line is obtained by $d_2 = h_2 + sn$. In these, s, h_1 , and h_2 are parameters dependent on p_1 , p_2 , α and β .

In the inequalities, A and B (for which a and b are the logarithms) are so determined that, if H_1 is true, the probability will be α , or less, that H_2 will be accepted; and so that, if H_2 is true, the probability will be β , or less, that H_1 will be accepted. Thus, whenever H_2 is accepted, $p_2 \geq Ap_1$ and the total probability of obtaining a sample that will lead to the acceptance of H_2 is at least A times as large when H_2 is true as when

pathfinding texts

hoeber book news



By Nielsen

AGNOSIA, APRAXIA, APHASIA

BRILLIANT exploration of agnosias, apraxias, and aphasias, and the value of these cerebral disturbances in diagnosis. This completely new up-to-date edition considers failures of recognition, communication, and motor coordination from the standpoint of the philosophy of cerebral function on the one hand, and cerebral localization in neurologic diagnosis on the other. J. M. Nielsen of U. of South. Cal. has created a pioneer scientific objective volume. Ready soon, 302 pp., 59 illus., \$5.00

By Mainland

ANATOMY ("as a living subject . . . ")

"CONGRATULATIONS to Donald Mainland of Dalhousie for this revolutionary sensible approach to anatomy," says Southern Med. Journal. "The whole book is refreshing, showing all phases of anatomy as subject to wide ranges of normal variation, and integrating these constitutional differences with disease incidence. The very acceptance of the fact that human individuality is made up of hereditary and acquired variations from the mode makes anatomy a living subject." 880 pp., illus., \$7.50

_ L c	ONVENIENT ORDER	BLANK — — — — Sci. 66
PAUL B. HO	DEBER, INC	C., Publishers
Medical Book De 49 E. 33rd St., N	ept. of HARPER ew York 16, N.	R & BROTHERS Y.
Send me: [AGNOSIA	ANATOMY
On Approval	☐ C.O.D.	Check Encl.
Name	Address	