
The Use of Animals in Research and Teaching

Optical Communications: R. Komnepner
An appraisal of the many techniques and the steps to be taken before practical systems are achieved.

Acoustical Thermometer: H. H. Plumb and G. Cataland
An ultrasonic interferometer provides a new method for the precise measurement of low temperature.

Research in Music with Electronics: L. Hiller and J. Beauchamp
Effects of modern scientific ideas and technology on the analysis and composition of music are surveyed.

Status of the National Standards for Physical Measurement: R. D. Huntoon
Progress in science and technology requires a highly developed measurement system of national scope.

Automated Synthesis of Peptides: R. B. Merrifield
Solid-phase peptide synthesis, a simple and rapid synthetic method, has now been automated.

The Rubidium Magnetometer in Archeological Exploration: S. Breiner
Exploration with a highly sensitive magnetometer allows use of more effective survey techniques.

Strip Mining: TVA in the Middle—Mohole: Platform Contract Awarded—Water Pollution Control: A New Law
BOOK REVIEWS
Polymer Science—Recent Books: L. A. Wood
A Short History of Machine Tools, reviewed by E. S. Ferguson; other reviews by H. M. Gehman, R. M. L. Baker, L. Spitzer, Jr., S. A. Bedini

REPORTS
Structure of Ice VI: B. Kamb
Messenger RNA in Early Sea-Urchin Embryos: Cytoplasmic Particles: A. S. Spirin and M. Nemer
Messenger RNA in Early Sea-Urchin Embryos: Size Classes: M. Nemer and A. A. Infante
Morphogenetic Effects of 6-Azauracil and 6-Azaauridine: R. M. Rizki and T. M. Rizki
Protein Solutions: Concentration by a Rapid Method: W. F. Blatt et al.
Hemolysin of Mycoplasma pneumoniae: Tentative Identification as a Peroxide: N. L. Somerson, B. E. Walls, R. M. Chanock
Comments on Reports: Transfer of Learned Response by RNA Injection: R. E. Carney; A. L. Jacobson

MEETINGS
Critical-Point Phenomena: M. S. Green; Forthcoming Events

COVER
Seventeenth-century mastersigns of the makers of scales, weights, and boxes of the city of Antwerp, one of the centers for the manufacture and export of scales and weights. It was compulsory, starting in medieval times, for each master to choose a sign and imprint it on every item leaving his workshop. This identification was meant to prevent carelessness or cheating. See review of Scales and Weights: A Historical Outline, page 203. [Bruno Kisch, Brooklyn, N.Y.]