PUBLISHING NEWS

Reliability Physics Notebook

One approach to determining the operating life expectancy of electronic devices has been outlined in the *Reliability Physics Notebook*, prepared by reliability and solid-state scientists at Battelle Memorial Institute's Columbus Laboratories for the Rome Air Development Center at Griffiths Air Force Base in New York.

The notebook contains 254 pages, including 60 figures, which outline techniques, procedures, and data in six areas: mathematical models in reliability physics, aging and failure mechanisms; physical properties of materials and processes pertinent to reliability physics, accelerated testing, reliability screening procedures, and the use of statistical methods in reliability physics experiments.

The volume, edited by H. Clay Gorton of Battelle, is available from the Clearing House for Federal Scientific and Technical Services, US Department of Commerce, Washington, D. C. 20230.

Apparatus

Three volumes concerning the improvement of physics apparatus for laboratories and lectures have been prepared by the American Institute of Physics and American Association of Physics Teachers Center for Educational Apparatus in Physics.

The first, *Physics Apparatus, Experiments, and Demonstrations*, is a bibliographic guide listing the educational literature in physics on experiments, demonstrations, laboratory instrumentation and techniques, and sources of apparatus, equipment, and materials. The titles, most of which are intended for the undergraduate, do not include texts and standard reference works.

The second publication, *Physics Experiments and Demonstrations*, is an annotated subject index of papers dealing with experiments or demonstrations, selected from the *American Journal of Physics* in the years 1933 to 1964. *Apparatus Notes*, the third volume, is a reprinting, with a keyword index, of the two-page apparatus note section of AJP which has appeared in the Journal since 1960.

All three publications are available from the AIP, 335 East 45th Street, New York, N. Y. 10017.

Measurements and calibrations

A survey of the degree of accuracy in measurement now existing in the United States is the subject of *Accuracy in Measurements and Calibrations, 1965*, edited by W. A. Wildhack, R. C. Powell, and R. L. Mason and published by the National Bureau of Standards.

The book has 145 pages of charts which plot the limits of uncertainty of a given quantity ranging from pico units to giga units and discussions covering the six basic quantities of the International System and derived quantities in the fields of electricity, metrology, mechanics, thermal, radiation and radio. It is available as NBS Technical Note 262, at a cost of $1.00 from the Superintendent of Documents, US Government Printing Office, Washington, D. C. 20402. One section of the book which covers calibration services from d-c into the microwave region available at the NBS Boulder Laboratories is also being published as a 93-page separate volume, *Accuracy in Electrical and Radio Measurements and Calibrations, 1965*. It is Technical Note 262A and costs fifty cents.

Conference proceedings

Several conference proceedings have recently been published by CERN. All are available from CERN, 1211, Geneva 23, Switzerland. W. O. Lock is editor of Volume I and F. Dahl-Jensen is editor of Volume II of the proceedings of the Vth International Conference on Nuclear Photography, which was held in September 1964. This is CERN publication 65-4. The proceedings of the conference on program-

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ming for flying spot devices, held in October 1964 in Bologna, Italy, have been edited by W. G. Moorhead and B. W. Powell. It is CERN publication 65-11. An informal meeting on filmless spark chamber techniques and associated computer use, held at CERN in March 1964, has its proceedings, CERN publication 84-30, edited by G. R. MacLeod and B. Maglić.

Scientific research in Britain

The 1964-1965 edition of *Scientific Research in British Universities and Colleges* has been issued by the Department of Education and Science and the British Council. Volume I covers scientific research in progress in the pure and applied physical sciences and Volume II in the life sciences in British universities and associated institutions, colleges of advanced technology, national colleges, and regional technical colleges. Both volumes are available at a cost of $15.50 from British Information Services, 845 Third Avenue, New York, N. Y. 10022. The cost of Volume I alone is $7.50.

Atomic Handbook

The first volume of a reference work to people, organizations, resources, and developments in the nuclear field has been published by the Morgan Brothers, Ltd., at 28 Essex Street, London WC 2, England, on behalf of the Nuclear Public Relations Contact Group.

Edited by John W. Shortall for the group, the *Atomic Handbook* is divided into six parts which include descriptions of facilities, equipment, and research programs for nuclear research in Europe; a directory of international scientific organizations headquartered in Europe; a directory of personnel and facilities listed by country; and directories of nuclear energy journals, year books, and reference books.

Future volumes covering the United States, Canada, and other areas of the world are planned. The present volume is available at $20.00 from the above-mentioned publishers.