



McGRAW-HILL



INSTRUMENT ENGINEERING

By CHARLES STARK DRAPER, WALTER McKAY,
and SIDNEY LEES
Massachusetts Institute of Technology.

VOLUME III: APPLICATIONS OF THE INSTRUMENT ENGINEERING METHOD

Part I—Measurement Systems. 918 pages, \$17.50

This comprehensive reference for the practicing engineer and textbook of unusual completeness contains examples in which the theory, methods, and techniques described in the first and second volumes are applied to typical cases. Useful methods for solving measurement problems are built up in Part I of Volume III by means of typical examples, beginning with thermometers that have the simplest possible performance equations. The discussions that follow deal with instruments and measuring systems of increasing complexity, including electromechanical measuring devices, pressure-measuring systems, integrators and differentiators, analog computers, and vibration-measuring equipment.

Part II—Control Systems. IN PRESS

OTHER IMPORTANT McGRAW-HILL BOOKS

INSTRUMENT ENGINEERING

By CHARLES STARK DRAPER, WALTER
McKAY, and SIDNEY LEES

VOLUME I: Methods for Describing the Situations of Instrument Engineering

288 pages, \$7.00

Develops a system of concepts, notations, diagrams and mathematical forms for describing the performance of physical devices and variations in physical quantities.

VOLUME II: Methods for Associat- ing Mathematical Solutions with Common Forms

856 pages, \$15.00

Reviews the mathematical background of several methods for associating solutions with these descriptive forms and illustrates procedures by actual derivations of quantitative results for a number of generally useful examples.

McGRAW-HILL BOOK COMPANY, INC.

330 WEST 42ND STREET

NEW YORK 36, N. Y.

SEND FOR
COPIES ON
APPROVAL

Child Welfare, Univ. of Minnesota, Minneapolis 14.)

8-10. Florida Acad. of Sciences, Miami. (R. A. Edwards, Geology Dept., Univ. of Florida, Gainesville.)

9-10. Assoc. for Research in Nervous and Mental Disease, 35th annual, New York, N.Y. (C. C. Hare, 710 W. 168 St., New York 32.)

9-10. Texas Acad. of Science, annual, Waco. (G. P. Parker, P.O. Box 7488, College Station, Texas.)

9-13. American Acad. of Optometry, Chicago, Ill. (C. C. Koch, 1502 Foshay Tower, Minneapolis 2, Minn.)

10-16. Nuclear Cong. and Atomic Exposition, Cleveland, Ohio. (A. F. Denham, 931 Book Bldg., Detroit 26, Mich.)

10-16. Radiological Soc. of North America, Inc., Chicago, Ill. (D. S. Childs, Sr., 713 East Genesee St., Syracuse 2, N.Y.)

11-14. American Soc. of Agricultural Engineers, Chicago, Ill. (F. B. Lanham, ASAE, St. Joseph, Mich.)

11-14. American Soc. of Refrigerating Engineers, New York, N.Y. (R. C. Cross, ASRE, 234 Fifth Ave., New York 1.)

14. Operations Research Symposium, Philadelphia, Pa. (R. V. D. Campbell, Operations Research Symposium Registration, Burroughs Research Center, Paoli, Pa.)

15-17. Acoustical Soc. of America, Providence, R.I. (W. Waterfall, ASA, 57 E. 55 St., New York 22.)

15-17. International Union of Scientific Radio, U.S. national, Gainesville, Fla. (J. P. Hagen, Code 7100, URSI, Naval Research Lab., Washington 25.)

16-21. Interamerican Cong. of Psychology, 3rd, Austin, Tex. (W. Holtzman, Univ. of Texas, Austin.)

26-29. Biometric Soc., Eastern N. American Region, New York, N.Y. (A. M. Dutton, Box 287, Station 3, Rochester 20, N.Y.)

26-31. American Assoc. for the Advancement of Science, Atlanta, Ga. (R. L. Taylor, AAAS, 1025 Connecticut Ave., NW, Washington 6.)

27-29. American Mathematical Soc., 62nd annual, Houston, Tex. (J. H. Curtiss, AMS, 80 Waterman St., Providence 6, R.I.)

27-29. Archaeological Inst. of America, Chicago, Ill. (C. Boulter, 608, Univ. of Cincinnati Library, Cincinnati 21, Ohio.)

27-29. Assoc. for Symbolic Logic, Rochester, N.Y. (J. Barlaz, Rutgers Univ., New Brunswick, N.J.)

27-29. Linguistic Soc. of America, Chicago, Ill. (A. A. Hill, 1719 Massachusetts Ave., NW, Washington 6.)

27-29. Western Soc. of Naturalists, Davis, Calif. (D. Davenport, Univ. of California, Santa Barbara.)

27-30. American Statistical Assoc., New York, N.Y. (E. M. Bisgyer, 1757 K St., NW, Washington 6.)

27-30. Inst. of Mathematical Statistics, New York, N.Y. (K. J. Arnold, Dept. of

Mathematics, Michigan State Univ., East Lansing.)

27-1. Phi Delta Kappa, 50th anniversary, Bloomington, Ind. (J. C. Whinnery, 324 N. Greenwood Ave., Montebello, Calif.)

28-29. Northwest Scientific Assoc., Spokane, Wash. (F. J. Schadeegg, Eastern Washington College of Education, Cheney.)

28-30. American Economic Assoc., New York, N.Y. (J. W. Bell, Northwestern Univ., Evanston, Ill.)

28-30. American Historical Assoc., Washington, D.C. (B. C. Shafer, Study Room 274, Library of Congress Annex, Washington 25.)

28-30. American Philological Assoc., Chicago, Ill. (J. P. MacKendrick, Bascom Hall, Univ. of Wisconsin, Madison 6.)

28-30. Low Temperature Physics and Chemistry, Baton Rouge, La. (J. G. Daunt, Dept. of Physics, Ohio State Univ., Columbus 10.)

28-30. American Philosophical Assoc., Eastern Div., Boston, Mass. (W. H. Hay, Dept. of Philosophy, Univ. of Wisconsin, Madison.)

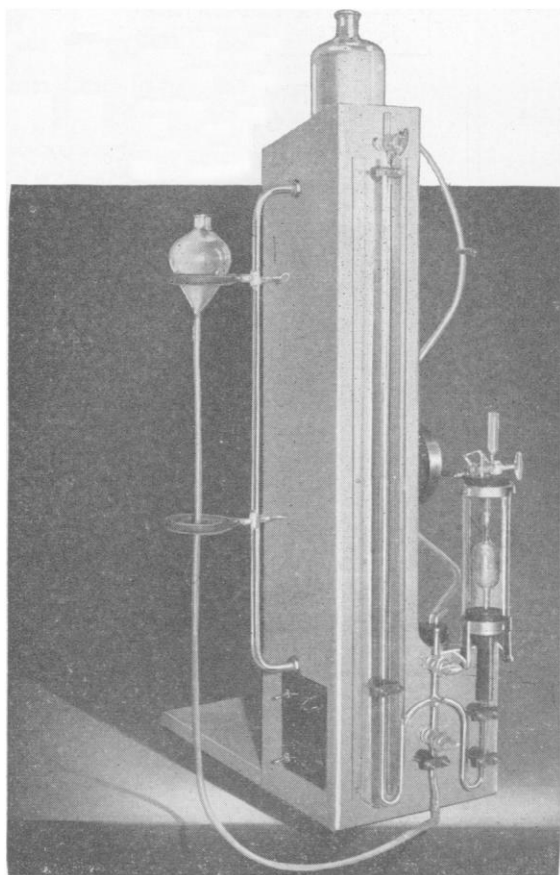
28-30. American Physical Soc., winter meeting, Los Angeles, Calif. (K. K. Darrow, Columbia University, New York 27.)

28-30. Econometric Soc., New York, N.Y. (R. Ruggles, Box 1264, Yale Station, Yale Univ., New Haven, Conn.)

(See 21 Oct. issue for comprehensive list)

VAN SLYKE

MANOMETRIC BLOOD GAS APPARATUS



THE original Van Slyke principle and technique remain unchanged, but these improvements are noted in this present-day model: more substantial construction, adjustable leveling bulb, new glare-proof manometer and burette illumination, independently controlled lights and motor, mounted wash bottle and receptacles for glass tips of suction and distilled water tubes contribute to ease and accuracy of operation.

Cat. No. 21-432 \$275.00

Manufacturers

Distributors

6th & Byrd Streets — Richmond 5, Va.

(Washington D.C. Office: 2385 Rhode Island Ave.)

Phipps & Bird
INC.

MANUFACTURERS • DISTRIBUTORS
RICHMOND, VIRGINIA

WANT MORE SCALER PER KILOBUCK?
Specify the BERKELEY
DECIMATIC!



- Either 1 mv or 0.2 v. sensitivity
- Plug-in non-overloading amplifier units
- Preset count, preset time, or time-count
- Precision discriminator with 10-turn control
- Electrical reset
- Precision 500-3000 v. high voltage supply
- Automatic print-out of counts optional at extra cost
- Price: Model 2020A1 \$1,195.00
f.o.b. Richmond, California

Call your Berkeley representative or write for data
bulletin; please address Dep't. F-11

Berkeley

DIVISION OF BECKMAN INSTRUMENTS, INC.
2200 WRIGHT AVENUE, RICHMOND 3, CALIFORNIA



73

Now available . . .

Adenosine Triphosphate (ATP); Amygdalin; Amylase; Animal Lecithin; Ascorbic Acid Oxidase; Bactracin; BAL; Biotin, cryst.; Caffeic Acid; Carotene, cryst.; Catalase; Cellulase; Chlorogenic Acid; Chorionic Gonadotropin; Circulatory Hormone; Colechicine; Cytidylic Acid; Cytochrome C; Dehydroascorbic Acid; Diacetoneamine; Dihydroxyacetone; Dihydroxyphenylalanine (DOPA); Dipyrrolyl; Edestin; Emulsin; Erythritol; N-Ethylpiperidine; Fibroin; Folic Acid; Galacturonic Acid; Gentisic Acid; Girard Reagents P and T; Gladin; Glucose Pentaacetate; Glucuronic Acid; Glycerinaldehyde; Glyceric Acid; Heparin; Hordenine; Hyaluronidase; Hydrindene; 2-Hydroxyadipaldehyde; Humulon; Indan; Isoascorbic Acid; Isopropylarterenol; Kojic Acid; Kynurenine Acid; Lanthlonine; Lipase; Lysozyme; Lyxose; Malononitrile; Maltase; Melezitose; Mesobilirubinogen; Muscle Adenylic Acid; p-Nitrophenylphosphate; Nucleoprotein; Orcinol; Pancreatin; Pantothenyl Alcohol; Penicillinase; Peroxidase; Phenazine; Phenylpyruvic Acid; Phloridzin; Phosphorylase; Piperin; Porphyrindine; Protamines; Protoporphyrin; Pyridoxal; Pyridoxamine; Pyrocatechic Acid; Pyruvic Aldehyde; Ribonuclease; Saccharic Acid; Salmine; Serine Phosphoric Acid; Spermidine; Spermine; Thioacetic Acid; Thioctyosine; Thyroxine; Trigonelline; Triphenyltetrazolium Chloride; Tripyridyl; Trypsinogen; Tyrosinase; Tyrothricin; Urease; Uricase; Uridine; Vitellin; Xanthosine.

Ask us for others!

DELTA CHEMICAL WORKS, INC.

23 West 60th St. New York 23, N. Y.
Telephone Plaza 7-6317