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In addition to big performance, Varian's 9" Magnet System is attractively priced. Fully interchangeable components and accessories allow you to select the exact magnet system to meet your special needs.

Interested? A descriptive technical bulletin is available. Write the INSTRUMENT DIVISION, Magnet Product Group or call collect DAvenport 6-4000, Ext. 2736.
Whatever the pulse analyzer requirement — versatility, compactness, economy, large capacity — there is now a TMC analyzer to meet that requirement.

VERSATILE 256-channel CN-110 with choice of seven interchangeable logic plug-ins, transistorized circuits. The 400-channel "400 Series" Pulse Height Analyzers occupy little over a cubic foot of space and weigh just 36 lbs. All circuits are board-mounted and easily accessible from the sides. The Model 404 is a four-input unit; Model 401 is an economical single input version. Both have low level linear amplifiers ... memory grouping of 4 groups (100 channels each) 2 groups (200 each) and 1 group ... automatic or manual data transfer from half to half and even quarter to quarter within one half. 400 series analyzers can also be used in multiscaler operation. Specifications such as average dead time of 60 μsec, and ½ channel per day stability are typical.

The CN-440 — 4096-channel Time-of-flight Analyzer. Channels can be arranged in 16 groups of 256, each group with its own amplifier and integral discriminator. Memory cycle time fixed at 16 μsec ... readout is by CRT display and punched tape built into the system as well as by auxiliary card punch, typewriter, printer and magnetic tape units.

COMPACT 400-channel, 36-pound 400 series pulse height analyzers.

LARGE CAPACITY 4096-channel CN-440 time-of-flight analyzer.

Details of each analyzer series are listed below.

The CN-110 — a 256-channel, all-transistor, digital computer with CRT display and switch-selected binary, decimal and analog readout. Simply change one logic unit for another of the seven interchangeable plug-ins and you change the system — in seconds. Types of logic available:

- PULSE HEIGHT ANALYZER (4210) — built-in linear amplifier ... coincidence gating ... 5 x 10^4 cps ... 42 μsec ave. dead time.
- TIME-OF-FLIGHT ANALYZER (4211) 9 channel widths — 0.25 to 64 μsec ... dead time 16 μsec ... 4 switch-selected types of delay.
- PULSE HEIGHT ANALYZER (4213) 4 inputs ... coinc/anti-coinc gating ... 42 μsec ave. dead time.
- COINCIDENCE PAIR SPECTROMETER (4216) — 2 dimensional (16 x 16) analyses ... dead time fixed, 100 μsec.

PULSED NEUTRON; MASS SPECTROMETER and MULTISCALER units are also available.

ACCESSORIES: The Model 200 Data Output Unit — handles digital output, serves as a live timer, true timer and analysis cycle counter. Model 221 Magnetic Tape Buffer Storage Unit — provides high-speed storage of data for later playback. Model 8276 Binary Information Indicator for visual indication of address and arithmetic information. Compatible Hewlett-Packard printer, Monroe Data-Log paper tape printers and punch printer and punch combinations are also available.

ACCESSORIES: Model 510 Typewriter Drive Unit; Model 510 Typewriter Drive Unit; Model 530 IBM Computer Typewriter; Model 550 Paper Tape Reader plus various readout control units. Also, auxiliary equipment such as the Model 561 Visual Readout Indicator; Model 566 5" Oscilloscope Display Unit; X-Y plotters, null detectors, and character printers are all available as 400 series accessories.

ACCESSORIES: The Model 220 Data Output Unit — handles digital output, serves as a live timer, true timer and analysis cycle counter. Model 221 Magnetic Tape Buffer Storage Unit — provides high-speed storage of data for later playback. Model 8276 Binary Information Indicator for visual indication of address and arithmetic information. Compatible Hewlett-Packard printer, Monroe Data-Log paper tape printers and punch printer and punch combinations are also available.

For complete system data, write for technical bulletins.

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loss, because the corrections have not
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tion.
If there is any criticism to be made of
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reading is heavy. For this reason, the
book may not be suitable for a first-
year graduate course unless the students
have had extensive preliminary study of
thermodynamics and statistical
mechanics.

GEORGE WEISS
University of Maryland

Practical Science

A Short History of Clinical Pathology.
W. D. Foster. Livingstone, London; Williams and Wilkins, Baltimore,

Clinical pathology is the application of certain basic techniques of medical
science to the diagnosis and treatment of disease. Since such procedures only
become available as sciences develop, the text deals with progress in the rel-
ated sciences; this attractively-bound, well-illustrated book is, therefore, an
account of scientific advances in microscopic anatomy, physiology, pathology,
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pathology rests and also the ones which have made possible its development.
From crude visual inspection of a urine specimen to modern urinalysis is a
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full member of the clinical team.

The book is unique in that it deals
with the development of a science
which is itself half a dozen sciences.
Because its author is British, the book
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throws light on our basic medical sci-
cences from a point of view rarely ex-
plained, making it valuable reading for
scientists who are not practicing clini-
cal pathologists as well as for those
who are.

LELAND W. PARR
Department of Microbiology,
George Washington University

New Books

Biological and Medical Sciences

Advances in Pharmacology. vol. 1. Silvio Garattini and Parkhurst A. Shore, Eds.,

Advances in Small Animal Practice. vol. 3. Proceedings of the British Small Animal
208 pp. Plates. $10.

Animal Agents and Vectors of Human Disease. Ernest Carroll Faust, Paul Chester
Illus. $9.50.


Annual Review of Pharmacology, vol. 2. Windsor C. Cutting, Ed. Annual Reviews,

Biochemical Applications of Gas Chromatography. H. P. Burchfield and Eleanor E.

The Biochemistry of Intestinal Parasites. William M. Oliver. Univ. of Chicago Press,


Illus. $25.

Carbohydrates of Living Tissues. M. Stacey and S. A. Barker. Van Nostrand,

Cellulose. Physiology and Biochemistry. William D. McElroy. Prentice-Hall, Engle-

Cilia, Ciliated Epithelium and Ciliary Activity. vol. 15, International Series of

Crop Adaptation and Distribution. Carroll P. Wilsie. Freeman, San Francisco,

Czechoslovakian Medical Literature, 1960. Compiled by the National Medical
Library, Prague. State Health Publishing House, Prague, Czechoslovakia, 1961. 284
pp. Paper.

Dictionary of Ecology. Herbert C. Hanson. Philosophical Library, New York,

Elements of Biophysics. James E. Rand-
dall. Year Book Medical Publishers, Chi-

Étude des Antigènes de Transplantation. Présents dans les Cellules Spléniques et
275 pp. Illus.

Experimental Embryology. Techniques and procedures. Roberts Rugh. Burgess,

Field and Laboratory Guide for Ecology. Paul C. Lamon. Burgess, Minneapolis,

$7.50.

The Ideas of Biology. John Tyler Bon-
Illus. $4.95.

Inorganic and Communication in Bio-
logical Science. Lowell H. Hatterey (Pre-
bred for the Biological Sciences Commu-
nication Project, American Institute of
Biological Sciences). Center for Tech-
nology and Administration, American
University, Washington, D.C., 1961. 99
pp. Paper $0.25.

Introductory Basic Science. Stewart M.
Brooks. Mosby, St. Louis, Mo., 1962. 507
pp. Illus. $7.85.

pp. Illus. $15.

Laboratory Instructions in Biochemistry. Israel S. Kleinon and Louis B. Dotti.
Mosby, St. Louis, Mo., ed. 6, 1962. 202
Illus. Paper. $3.95.

Laboratory Outline for General Zool-
ogy. George Edwin Potter, Mosby, St.
Paper. $4.

Microbial Classification. 12th symposium of the Society for General Microbiology.
Ainsworth and P. H. A. Sneath, Eds. Cam-
bridge Univ. Press, New York, 1962. 492
pp. Illus. $9.50.

The Nature of Parasitism. The relation-
ship between Metazoa parasites to their

The Photosynthesis of Carbon Com-
ounds. Melvin Calvin and J. A. Bassham.
$5.50.

Plastics. A photographic study. Addison
E. Lee and Charles Heimsch. Holt, Rine-
hart, and Winston, New York, 1962. 68

Progress in Hematology. vol. 3. Leandro M. Tocantins, Ed. Grune and Stratton,

Regional Silviculture of the United
States. John W. Barrett, Ed. Ronald, New

Response of the Nervous System to
Ionizing Radiation. Proceedings of an in-
ternational symposium held at North-
western University Medical School, Chi-
Haley and Ray S. Snider, Eds. Academic

Selective Experiments in Medical Micro-
biochemistry. Stewart M. Brooks. Saunders,
$2. Laboratory Manual for Basic Facts of Medical Microbiology.

Tissue Transplantation. Proceedings of an international symposium held at Santiago,
Vina del Mar, and Valparaiso, Chile, 1961. Alberto P. Cristoffanini and Gustavo
Hoecker, Eds. Univ. of Chile, Santiago,
Meetings

Forthcoming Events

June


25–20 July, National Science Foundation, Summer Conf. for College Teachers of the History of Mathematics, Ann Arbor, Mich. (P. S. Jones, Dept. of Mathematics, Univ. of Michigan, Ann Arbor)

26–28. American Assoc. of Physics Teachers, Northfield, Minn. (R. P. Winch, Dept. of Physics, Williams College, Williamstown, Mass.)


26–29. Poultry Science Assoc., Urbana, Ill. (C. B. Ryan, Texas A & M College, College Station)

26–30. Rarefied Gas Dynamics, intern. symp., Paris, France. (L. Talbot, Dept. of Aeronautical Sciences, Univ. of California, Berkeley)

26–4. German Chemical Engineering Congr. and Exposition, Frankfurt am Main. (J. J. Doheny, American Chemical Soc., 86 E. Randolph St., Chicago 1, Ill)


27–30. Society of Nuclear Medicine, annual, Dallas, Tex. (S. N. Turie, SNM, 430 N. Michigan Ave., Chicago 11, Ill.)


28–30. Secondary Fungus Infections, intern. conf., Durham, N.C. (E. W. Chick, Veterans Administration Hospital, Durham)


July


1–4. European Soc. of Cardiovascular Surgery, Stockholm, Sweden. (G. Arnuff, 1, pl. Gailleton, Lyons, France)


2–6. Northern Forest Congr., Oslo, Norway. (T. Austin, Nordiske Skogkongress, Akersgaten 42, Oslo)


2–11. South African Chemical Institute, Johannesburg, S. Africa. (Secretary, SACI, P.O. Box 3361, Johannesburg)

2–14. Biology of Tuna and Related Species, intern. mtg., U.N. Food and Agriculture Organization, La Jolla, Calif. (J. L. McHugh, Bureau of Commercial Fisheries, Washington 25, D.C.)


7–14. International Dental Congr., Cologne, Germany. (R. Braun, Universitätstr. 73, Köln-Lindenthal, Germany)

8–12. Pan American Tuberculosis Congr., Guatemala City, Guatemala. (Ho-
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