

Although the literature is claimed to have been scanned only to 1 September 1961, many references to 1962 journals are in the list.

The register is published as volume 2, parts 1 and 2, from SiS_2 (silicon disulphide) to $\text{Si}_{26}\text{C}_{68}\text{H}_{170}\text{O}_{31}$ [α , w -Bis-(*o*-hydroxybenzoxymethyl)dopentacontamethylhexacosasiloxane]. Each compound is listed with not only the information that the reader might expect, but also the structural formula (with an illustration where appropriate), all available physical data, a key to method of synthesis and reactions (including negative experimental results), and salts, derivatives, isotopomers, and the like. In this country the cost of the typesetting would be fear-

some. The Prague group also recalculated the microanalytical data for each compound, finding in the course of their project that, of the calculated values in the literature, approximately 10 percent are in error. The anguish suffered by chemists who labored to achieve a state of purity in their compounds such that the analytical data would fit a miscalculated theoretical value could well serve as the subject of a short story on the model of de Maupassant's "The Necklace."

Chemists who are interested in organosilicon compounds will soon find these volumes necessary.

J. J. ZUCKERMAN

Baker Laboratory, Department of Chemistry, Cornell University

AAAS Air Conservation Commission Report

Air Conservation. Report of the Air Conservation Commission of the AAAS. James P. Dixon, Chairman. Richard Landau, Ed. AAAS, Washington, D.C., 1965. xii + 385 pp. Illus. Cash price to members, \$7; others, \$8.

The outburst of public interest in air pollution and its control is a recent phenomenon, and even more recent is the consequent spurt of popular and semipopular literature. The problem is so complex, involving so many aspects of modern living, that it is very difficult for any individual to be an overall expert. As a result, many of the books and articles that treat the topic have been incomplete or inaccurate, or they have stressed some aspects more than others. In their efforts to create awareness they have sometimes aroused undue fears. The proceedings of national conferences, while more technical and meant as broad surveys, have not been particularly even in their coverage.

This report of the AAAS Air Conservation Commission demonstrates what a team of experts who make their plans carefully can do to bring solid information to the public, and it also sets a model for future texts on this subject. It is all lucidly written, and it is intelligible to any interested reader, although only the first two parts, less than one-sixth of the book, are addressed to the general public. The authors state that to make the book manageable they had to leave out much material—for example, consideration of pollution from airborne biota—yet their report is quite

comprehensive. It includes, for instance, a concise discussion of fallout and its global implications, a topic from which most authorities on air pollution steer clear.

Many parts of the book are factual and technical—the description of control devices and the discussion of legislation at various levels of government. Other parts are thought provoking—the chapter on socioeconomic factors which shows the intricate relationships between air pollution control programs and other policies that regulate the web of human institutions. The report is studded with startling truths—"... it is ... presumptuous for nonpolluters to extend their domain over the common air by prohibiting almost all pollution without balancing their gains against the costs to others."

The authors' treatment of motor vehicles, which are the major source of air pollution in many metropolitan areas, may not entirely satisfy the reader. They seem overoptimistic about the possibility, in the near future, of reducing substantially emissions from existing types of vehicles. Some assertions would need much more qualification, and in the light of recent experience, the faith in crankcase and tail-end control devices does not appear to be fully justified.

No general bibliography is offered, but the references at the end of each chapter are adequate and in some cases quite ample.

LAURA FERMI

*5532 South Shore Drive,
Chicago, Illinois*

New Books

Biological and Medical Sciences

Advances in Pest Control Research. vol. 6. R. L. Metcalf, Ed. Interscience (Wiley), New York, 1965. 297 pp. Illus. \$11. Six papers: "Behavior and fate of chlorinated aliphatic acids in soils" by P. C. Kearney, C. I. Harris, D. D. Kaufman, and T. J. Sheets; "Penetration and translocation of Rogor applied to plants" by P. de Pietri-Tonelli; "Correlation between biological activity and molecular structure of the cyclodiene insecticides" by S. B. Soloway; "Natural models for plant chemotherapy" by A. E. Dimond; "Genetic studies on insecticide resistance" by G. P. Georgiou; and "Nicotinoids as insecticides" by Izuru Yamamoto.

The Alkaloids. vol. 7, pt. 2. K. W. Bentley. Interscience (Wiley), New York, 1965. 268 pp. Illus. \$6.75. Chemistry of Natural Products Series, edited by K. W. Bentley.

Anticoagulant Prophylaxis and Treatment. The new emphasis in management. G. I. C. Ingram and Sir John Richardson. Thomas, Springfield, Ill., 1965. 269 pp. \$8.75. A volume in the American Lectures in Living Chemistry Series, edited by I. Newton Kugelmass.

Aspects of Anxiety. Collated by Roche Laboratories with a preface by C. H. Hardin Branch. Lippincott, Philadelphia, 1965. 80 pp. Illus. \$3.50.

Authors of Plant Genera. Sydney W. Gould and Dorothy C. Noyce. New York Botanical Garden, New York; Connecticut Agricultural Experiment Station, New Haven, 1965. 336 pp. Paper, \$6. International Plant Index, vol. 2.

Biochemical Energetics and Kinetics. A. R. Patton. Saunders, Philadelphia, 1965. 122 pp. Illus. Paper, \$3.75.

Biospeleology: The Biology of Cavernicolous Animals. A. Vandel. Translated from the French edition (Paris, 1964) by B. E. Freeman. Pergamon, New York, 1965. 548 pp. Illus. \$22.50. Thomas C. Barr reviewed the French edition in *Science* [144, 1956 (1964)].

British Veterinary Codex, 1965. Prepared by the Department of Pharmaceutical Sciences, Pharmaceutical Society of Great Britain. Pharmaceutical Press, London, ed. 2, 1965. 879 pp. Illus. 105s.

The Coccidian Parasites (Protozoa, Sporozoa) of Rodents. Norman D. Levine and Virginia Ivens. Univ. of Illinois Press, Urbana, 1965. 371 pp. Illus. Paper, \$7.50; cloth, \$8.50. Illinois Biological Monographs, No. 33.

Dosimetrie zur Betatrontherapie. Wolfgang Pohlitz, J. Kretschko, K. H. Manegold, H. Manegold, M. Teich, and B. Rajewsky. Thieme, Stuttgart, Germany, 1965. 88 pp. Illus. Paper, \$6.25.

Dynamics of Response. Joseph M. Notterman and Donald E. Mintz. Wiley, New York, 1965. 285 pp. Illus. \$8.95.

An Evolutionary Survey of the Plant Kingdom. Robert F. Scagel, Glenn E. Rouse, Janet R. Stein, Robert J. Bandoni, W. B. Schofield, and T. M. C. Taylor. Wadsworth, Belmont, Calif., 1965. 670 pp. Illus. \$12.95. A volume in the Wadsworth Botany Series, edited by William A. Jensen and Leroy G. Kavaljian.

(Continued on page 1643)

NEW BOOKS

(Continued from page 1580)

Flower Pollination in the Phlox Family. Verne Grant and Karen A. Grant. Columbia Univ. Press, New York, 1965. 192 pp. Illus. \$5.75.

Fundamentals of Soil Science. C. E. Millar, L. M. Turk, and H. D. Foth. Wiley, New York, ed. 4, 1965. 503 pp. Illus. \$9.95.

General Genetics. Adrian M. Srb, Ray D. Owen, and Robert S. Edgar. Freeman, San Francisco, ed. 2, 1965. 569 pp. Illus. \$9.

Guaianolides and Germacranolides. František Šorm and Ladislav Dolejš. Hermann, Paris, 1965. 153 pp. Illus. Paper, F. 48. Chemistry of Natural Products Collection, No. 6, edited by Edgar Lederer.

Haematological Techniques for Use on Animals. R. K. Archer. Davis, Philadelphia, 1965. 145 pp. Illus. Paper, \$4.

Handbook of Physiology. A critical, comprehensive presentation of physiological knowledge and concepts. Section 3, vol. 2, *Respiration*. Wallace O. Fenn and Hermann Rahn, Eds. American Physiological Soc., Washington, D.C., 1965. 778 pp. Illus. \$28 (order from Williams and Wilkins, Baltimore).

Handbook of Waterfowl Behavior. Paul A. Johnsgard. Cornell Univ. Press, Ithaca, N.Y., 1965. 394 pp. Illus. \$10.

Histopathologic Technic and Practical Histochemistry. R. D. Lillie. McGraw-Hill, New York, ed. 3, 1965. 727 pp. Illus. \$13.95.

Homeostasis. L. L. Langley. Reinhold, New York, 1965. 126 pp. Illus. Paper, \$1.95. A volume in the Selected Topics in Modern Biology Series, edited by Peter Gray.

Immunological Diseases. Max Samter, Ed. Little, Brown, Boston, 1965. 990 pp. Illus. \$30. Eighty-one papers.

Mammalian Radiation Lethality: A Disturbance in Cellular Kinetics. Victor P. Bond, Theodor M. Fliedner, and John O. Archambeau. Academic Press, New York, 1965. 356 pp. Illus. \$9.50. American Institute of Biological Sciences and U.S. Atomic Energy Commission Monograph Series on Radiation Biology.

Mammals of the Pacific States: California, Oregon, and Washington. Lloyd G. Ingles. Stanford Univ. Press, Stanford, Calif., 1965. 518 pp. Illus. \$10.

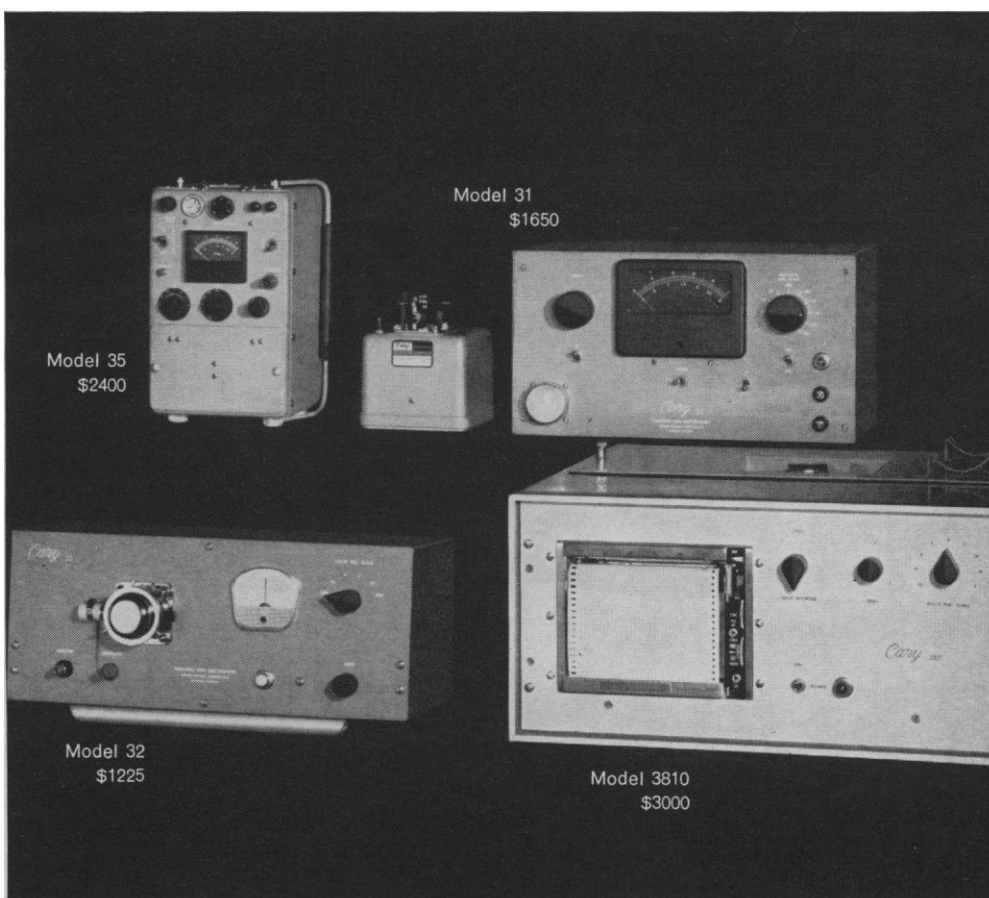
Methods and Goals in Human Behavior Genetics. Steven G. Vandenberg, Ed. Academic Press, New York, 1965. 365 pp. Illus. \$8.95. Sixteen papers.

Neurotic Styles. David Shapiro. Basic Books, New York, 1965. 221 pp. \$5.50.

Nutritional Aspects of Cardiovascular Diseases. Eörs Bajusz. Lippincott, Philadelphia, 1965. 264 pp. Illus. \$12. International Monographs: Aspects of Animal and Human Nutrition Series.

Newer Methods of Nutritional Biochemistry. With applications and interpretations. vol. 2. Anthony A. Albanese, Ed. Academic Press, New York, 1965. 574 pp. Illus. \$18.50. Eleven papers: "Body composition" by A. M. Pearson; "Energy metabolism" by R. Passmore and M. H. Draper; "Growth and pituitary hormones" by O. H. Gaebler; "Utilization of essential amino acids by man"

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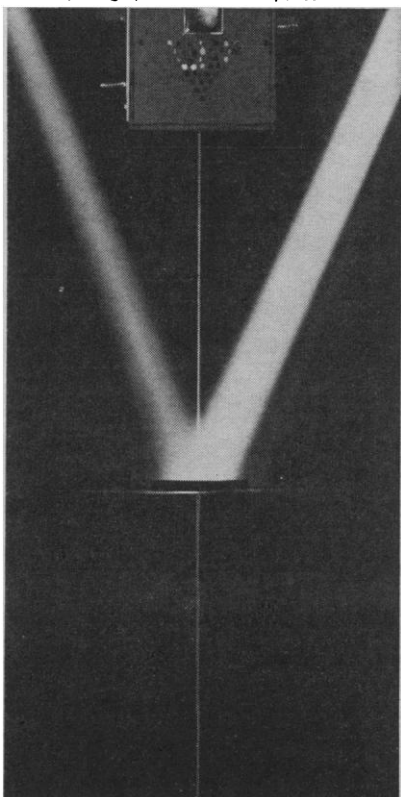
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The Peptides. vol. 1, *Methods of Peptide Synthesis*. Eberhard Schroder and Klaus Lubke. Translated from the German by Erhard Gross. Academic Press, New York, 1965. 511 pp. Illus. \$18.

Plant Physiology: A Treatise. vol. 4A, *Metabolism: Organic Nutrition and Nitrogen Metabolism*. F. C. Steward, Ed. Academic Press, New York, 1965. 751 pp. Illus. Five papers: "Photosynthesis (carbon assimilation): Environmental and metabolic relationships" by Moyer D. Thomas; "Micrometeorology and the physiology of plants in their natural environment" by Edgar Lemon; "The respiration of plants and their organs" by E. W. Yemm; "The respiration of bulky organs" by Dorothy F. Forward; and "Metabolism of nitrogenous compounds" by F. C. Steward and D. B. Durzan.

Practical Clinical Enzymology. J. King. Van Nostrand, Princeton, N.J., 1965. 371 pp. Illus. \$12.50.

Principles of Nutrition. Eva D. Wilson, Katherine H. Fisher, and Mary E. Fuqua. Wiley, New York, ed. 2, 1965. 606 pp. Illus. \$7.25.

Quantitative Problems in Biochemistry. Edwin A. Dawes. Williams and Wilkins, Baltimore, ed. 3, 1965. 333 pp. Illus. \$8.25.

Readings in Ecology. Edward J. Kormondy, Ed. Prentice-Hall, Englewood Cliffs, N.J., 1965. 235 pp. Illus. Paper, \$3.95. Prentice-Hall Biological Science Series, edited by William D. McElroy and Carl P. Swanson. Sixty papers on the following topics: Early natural history (3 papers); The physical and chemical environment (14 papers); The study of populations (15 papers); The study of communities (13 papers); and The concept of the ecosystem (15 papers).

Das Röntgenfernsehen. Technische Grundlagen und klinisch-röntgenologische Anwendung. Alfred Gebauer, Josef Lissner, and Ottfried Schott. Thieme, Stuttgart, Germany, 1965 (order from Intercontinental Medical Book Corp., New York). 176 pp. Illus. DM. 34.

Science of Biology. David F. Miller and B. B. Vance. Lippincott, Philadelphia, 1965. 688 pp. Illus. \$5.80.

The Structure of Lipids by Spectroscopic and X-Ray Techniques. D. Chapman. Wiley, New York, 1965. 335 pp. Illus. \$10.50.

Textbook of Physiology and Biochemistry. George H. Bell, J. Norman Davidson, and Harold Scarborough. Williams and Wilkins, Baltimore, ed. 6, 1965. 1152 pp. Illus. \$15.25.

Vertebrates: Their Structure and Life. W. B. Yapp. Oxford Univ. Press, New York, 1965. 533 pp. Illus. \$8.50.

Viral and Rickettsial Infections of Man. Frank L. Horsfall and Igor Tamm, Eds.

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in Medicine and the Allied Sciences.*

Lippincott, Philadelphia, ed. 4, 1965. 1300 pp. Illus. \$15.50. Fifty-four papers.

Vision and Visual Perception. Clarence H. Graham, Ed. Wiley, New York, 1965. 645 pp. Illus. \$23.50. Contributors are Neil R. Bartlett, John Lott Brown, Yun Hsia, Conrad G. Mueller, and Lorrin A. Riggs.

Visual Capabilities in the Space Environment. A collection of articles sponsored by the Human Factors Society. C. A. Baker, Ed. Pergamon, New York, 1965. 211 pp. Illus. \$10.50. Sixteen papers; thirteen are reprints from *Human Factors*, vol. 4, No. 6, and vol. 5, No. 3.

Wheat: Botany, Cultivation, and Utilization. R. F. Peterson. Hill, London; Interscience (Wiley), New York, 1965. 448 pp. Illus. \$16. A volume in the World Crops Books Series, edited by Nicholas Polunin.

Work and Mental Illness. Eight case studies. Ozzie G. Simmons. Wiley, New York, 1965. 283 pp. \$6.95.

Mathematics, Physical Sciences, and Engineering

Advanced Physical Chemistry: Molecules, Structure, and Spectra. Jeff C. Davis, Jr. Ronald, New York, 1965. 642 pp. Illus. \$12.

Advanced Quantum Theory: An Outline of the Fundamental Ideas. Paul Roman. Addison-Wesley, Reading, Mass. 1965. 749 pp. Illus. \$17.50. Addison-Wesley Series in Advanced Physics.

Advances in Fluorine Chemistry. vol. 4. M. Stacey, J. C. Tatlow, and A. G. Sharpe, Eds. Butterworth, Washington, D.C., 1965. 325 pp. Illus. \$14.95. Six papers: "The Balz-Schiemann reaction" by H. Suschitzky; "Some techniques and methods of inorganic fluorine chemistry" by R. D. Peacock; "Ionic reactions of fluoro-olefins" by R. D. Chambers and R. H. Mobbs; "Structural aspects of monofluorosteroids" by N. F. Taylor and P. W. Kent; "Fluorides of the main group elements" by R. D. W. Kemmitt and D. W. A. Sharp; and "The vibrational spectra of organic fluorine compounds" by J. K. Brown and K. J. Morgan.

Advances in Geophysics. vol. 11. H. E. Landsberg and J. Van Miegheem, Eds. Academic Press, New York, 1965. 359 pp. Illus. \$14. Four papers: "Astrogeology: Terrestrial meteoritic craters and the origin of tektites" by Vladimir Vand; "Atmospheric ozone" by Arlette Vassy; "The heat and water budget of the earth's surface" by David H. Miller; and "Fluctuations of ground-water levels" by G. Tison, Jr.

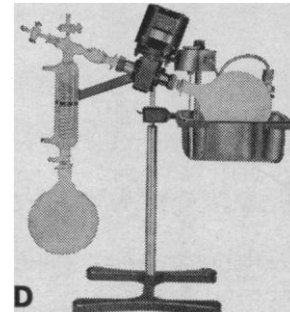
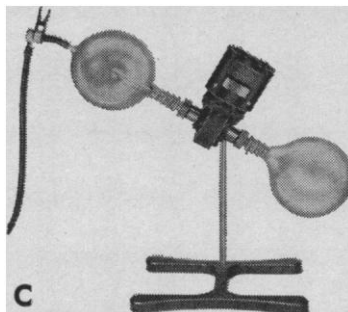
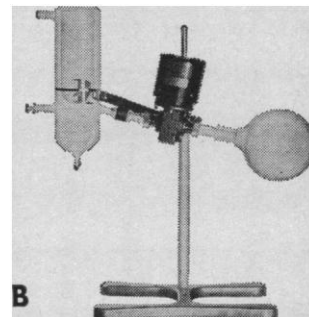
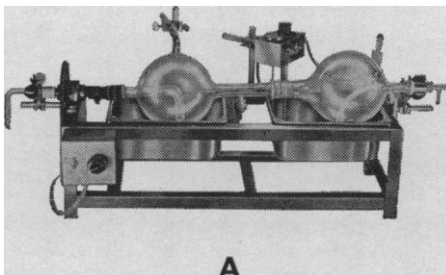
Analogues for the Solution of Boundary-Value Problems. B. A. Volynskii and V. Ye. Bukhman. Translated from the Russian edition (Moscow, 1960) by Jacques J. Schorr-Kon. J. G. L. Michel, Translation Ed. Pergamon, New York, 1965. 472 pp. Illus. \$15. International Tracts in Computer Science and Technology and Their Application.

Angular Correlation Methods in Gamma-Ray Spectroscopy. A. J. Ferguson. North-Holland, Amsterdam; Interscience (Wiley), New York, 1965. 226 pp. Illus. \$8.50.

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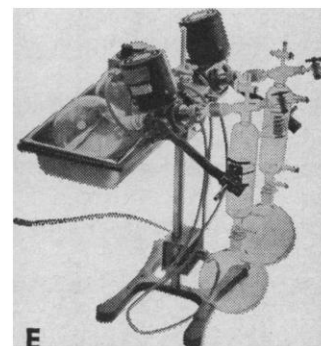
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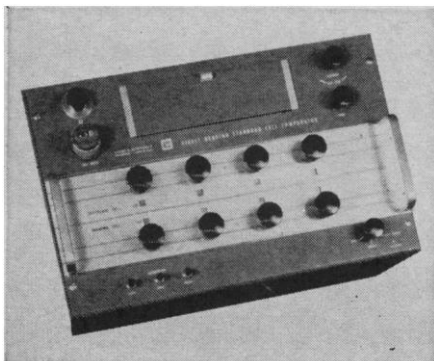
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Role of Microorganisms in the Formation of Iron-Manganese Deposits. B. V. Perfil'ev, D. R. Gabe, A. M. Gal'perina, V. A. Rabinovich, A. A. Sapotnitskii, É. É. Sherman, and É. P. Troshanov. Translated from the Russian edition (Moscow, 1964) by F. L. Sinclair. Consultants Bureau, New York, 1965. 130 pp. Illus. Paper, \$22.50.

Applied Structural Design of Building. Thomas H. McKaig. McGraw-Hill, New York, ed. 3, 1965. 507 pp. Illus. \$17.50.

Astronautics for Science Teachers. John G. Meitner, Ed. Wiley, New York, 1965. 389 pp. Illus. \$8.95. Ten papers.

Azeotropy and Other Theoretical Problems of Vapour-Liquid Equilibrium. Wladyslaw Malesinski. Polish Scientific Publishers, Warsaw; Interscience (Wiley), New York, 1965. 234 pp. Illus. \$9.25.

Bituminous Materials: Asphalts, Tars, and Pitches. vol. 2, pt. 1, *Asphalts*. Arnold J. Høiberg, Ed. Interscience (Wiley), New York, 1965. 716 pp. Illus. \$27.50. Twenty papers.

Borides, Silicides, and Phosphides. A critical review of their preparation, properties and crystal chemistry. Bertil Aronsson, Torsten Lundström, and Stig Rundqvist. Methuen, London; Wiley, New York, 1965. 130 pp. Illus. \$4.25.

A Brief Survey of Modern Algebra. Garrett Birkhoff and Saunders MacLane. Macmillan, New York, ed. 2, 1965. 287 pp. Illus. \$7.

Chemistry. E. Russell Hardwick. Blaisdell (Ginn), New York, 1965. 317 pp. Illus. \$7.50. A Blaisdell Book in the Pure and Applied Sciences.

Chemistry and Technology of Explosives. vol. 2. Tadeusz Urbański. Translated from the Polish edition by Władysław Ornał and Sylvia Laverton. Państwowe Wydawnictwo Naukowe, Warsaw; Pergamon, New York, 1965. 529 pp. Illus. \$12.

Chemistry in the Space Age. Marjorie H. Gardner, Holt, Rinehart, and Winston, New York, 1965. 176 pp. Illus. Paper, \$1.28; cloth, \$2.95.

Complex Variable Methods in Science and Technology. John Cunningham. Van Nostrand, Princeton, N.J., 1965. 186 pp. Illus. \$7.50.

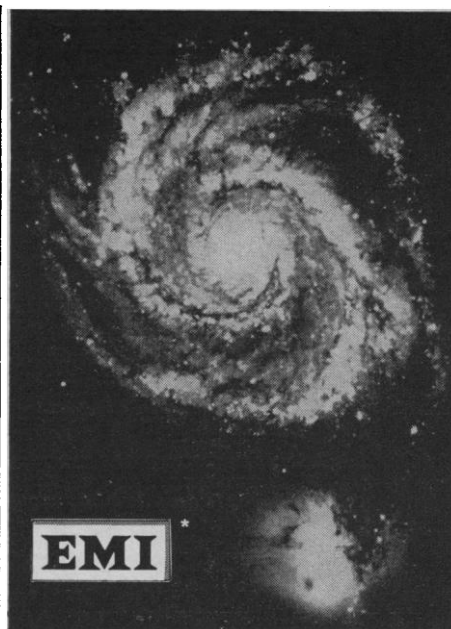
Components for Pneumatic Control Instruments. The static and dynamic characteristics of pneumatic resistances, capacitances, and transmission lines. L. A. Zalmanzon. Translated from the Russian edition (Moscow, 1961) by R. Hardbottle. F. P. Stainthorp, Translation Ed. Pergamon, New York, 1965. 337 pp. Illus. \$17.50.

Computer Control of Industrial Processes. Emanuel S. Savas. McGraw-Hill, New York, 1965. 414 pp. Illus. \$16.

Conceptions de la physique contemporaine. Les interprétations de la mécanique quantique et de la mesure. Bernard d'Espagnat. Hermann, Paris, 1965. 154 pp. Illus. F. 24.

A Concise Encyclopedia of Metallurgy. A. D. Merriman. Elsevier, New York, 1965. 1192 pp. Illus. \$7.50.

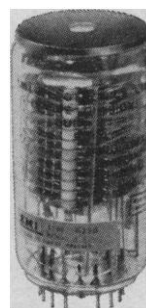
Constitution of Binary Alloys. First supplement. Rodney P. Elliott. McGraw-Hill, New York, 1965. 909 pp. Illus. \$35. McGraw-Hill Series in Materials Science and Engineering.



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SCIENCE, VOL. 150

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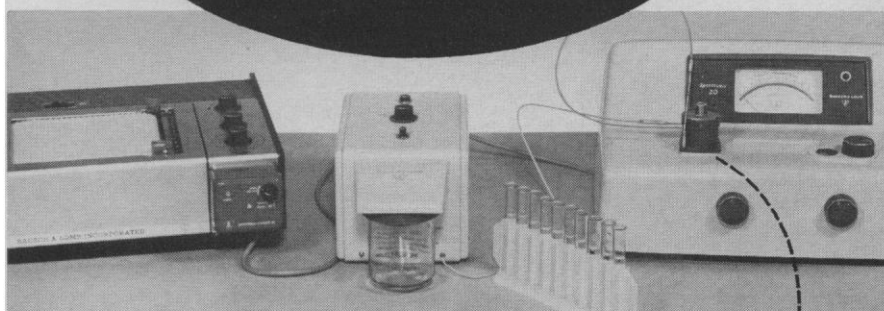
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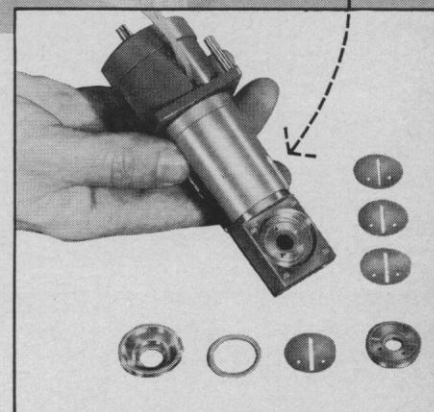
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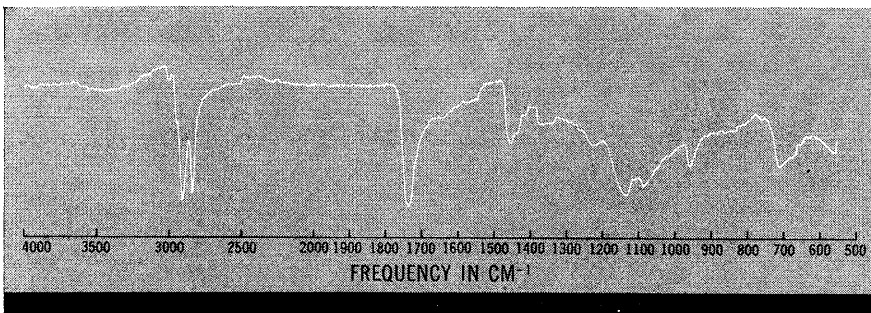


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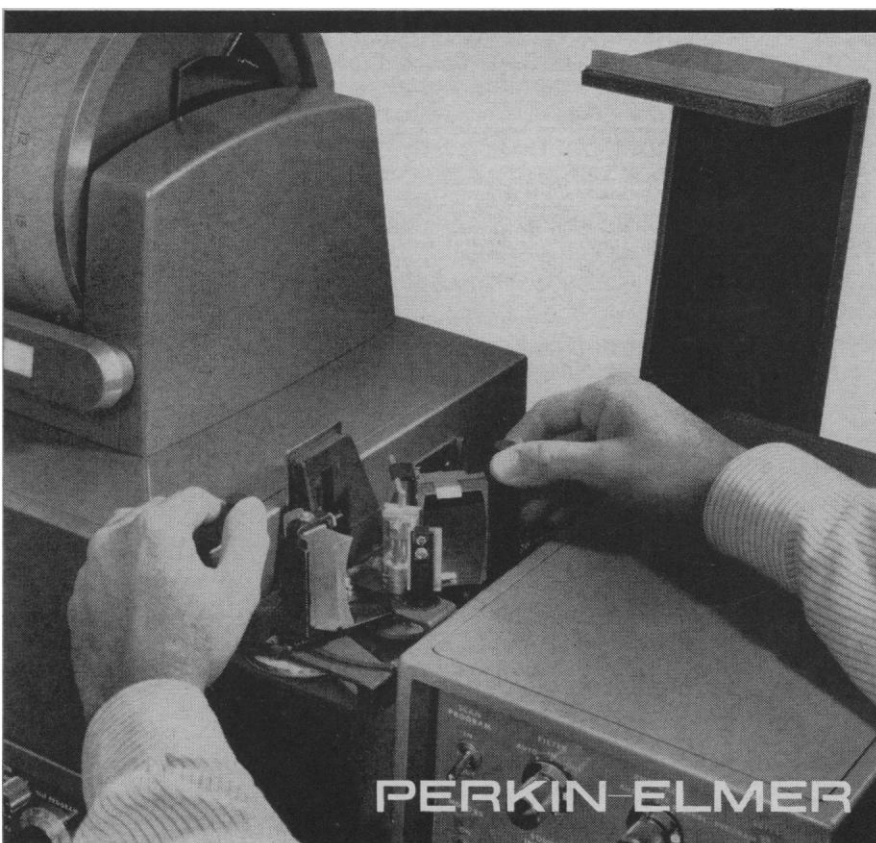
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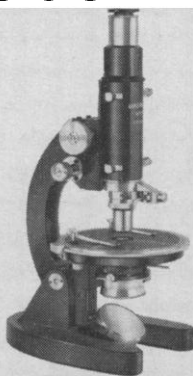
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| Erythritol-C14 (U) | 2-4 |
| D-Fructose-C14 (U) | 2-4 |
| D-Fructose-C14 (U) | 50-100 |
| [High specific activity] | |
| D-Galactose-1-C14 | 2-4 |
| D-Galactose-1-C14 | 20-30 |
| [High specific activity] | |
| D-Glucose-C14 (U) | 2-4 |
| D-Glucose-C14 (U) | 50-150 |
| [High specific activity] | |
| D-Glucose-1-C14 | 2-4 |
| D-Glucose-1-C14 | 20-30 |
| [High specific activity] | |
| D-Glucose-2-C14 | 1-4 |
| D-Glucose-2-C14 | 20-30 |
| [High specific activity] | |
| D-Glucose-6-C14 | 2-4 |
| D-Glucose-6-C14 | 20-30 |
| [High specific activity] | |
| D-Glucose-6-T | 100-500 |
| D-Glucose-6-T [High specific activity] | >1000 |
| D-Glucose-C14 (U)-6-phosphate | 2-4 |
| D-Glucose-C14 (U)-6-phosphate | 50-150 |
| [High specific activity] | |
| D-Glucose-1-C14-6-phosphate | 2-4 |
| myo-Inositol-C14 (U) | 10-50 |
| Lactose-1-C14 (U) | 4-12 |
| Maltose-C14 (U) | 4-10 |
| Maltotriose-C14 (U) | 100-250 |
| D-Mannitol-1-C14 | 10-30 |
| D-Mannose-C14 (U) | 2-5 |
| D-Mannose-1-C14 | 1-4 |
| D-Mannose-1-C14 | 20-35 |
| [High specific activity] | |
| D-Mannose-2-C14 | 1-3 |
| Methyl-(α -D-glucopyranoside (U) | 2-150 |
| Potassium D-gluconate-6-T | 100-250 |
| Potassium D-glucuronate-C14 (U) | 2-5 |
| Potassium D-glucuronate-6-C14 | 2-5 |
| D-Ribose-C14 (U) | 2-4 |
| D-Ribose-1-C14 | 2-4 |
| D-Ribose-1-C14 | 15-30 |
| [High specific activity] | |
| Sodium D-gluconate-C14 (U) | 2-6 |
| Sodium D-gluconate-1-C14 | 2-5 |
| Sodium D-gluconate-6-C14 | 1-4 |
| Sorbitol-C14 (U) | 5-10 |
| Sorbitol-1-C14 | 2-5 |
| L-Sorbitol-C14 (U) | 2-4 |
| Starch-C14 (U) | 2-50 μ C/mg |
| [Tobacco leaf; amorphous] | |
| Sucrose-C14 (U) | 5-15 |
| Sucrose-C14 (U) | 150-200 |
| [High specific activity] | |
| D-Xylose-C14 (U) | 1-4 |

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Economics and the Social Sciences

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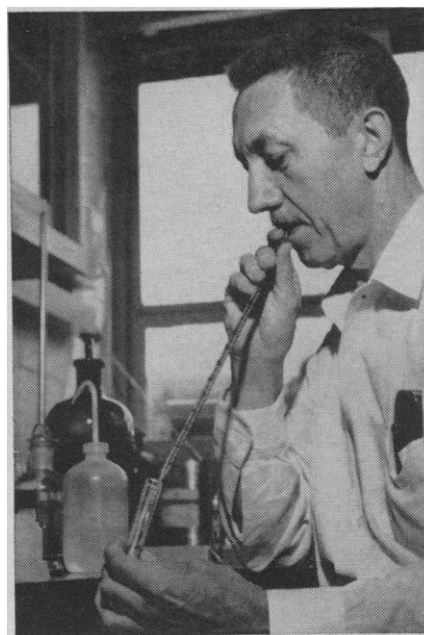
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Joseph J. Kolb,
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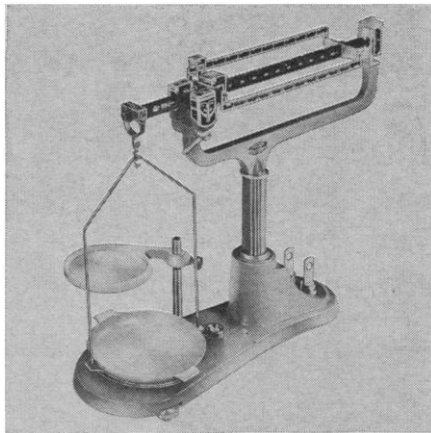
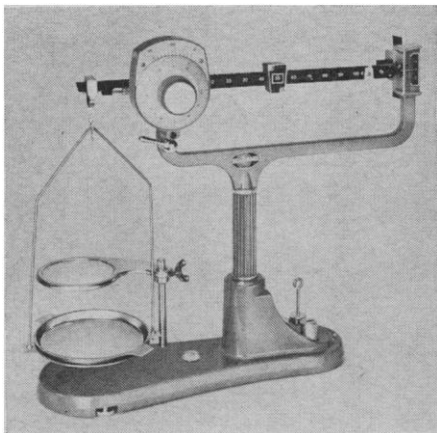
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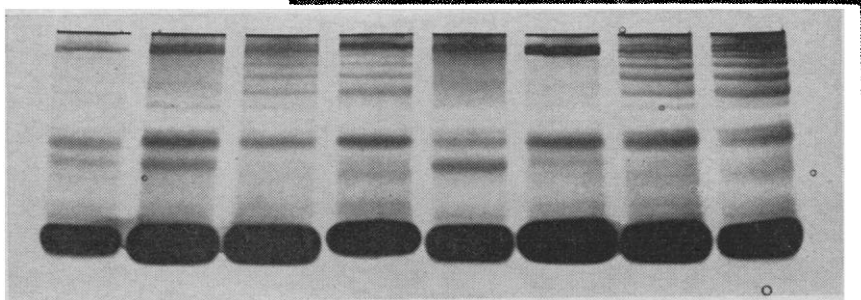
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Miss Billie Day, head technologist, clinical chemistry lab, Department of Pathology, Parkland Memorial Hospital, Dallas, Texas.



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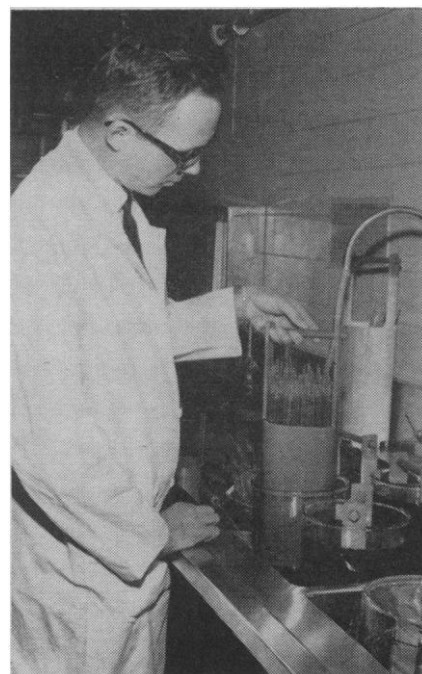
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William V. Wilkinson, special projects technician, cancer research, Princess Margaret Hospital, Toronto, Ont., Canada.



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